Datacard Group

SECURE ID AND CARD PERSONALIZATION SOLUTIONS

Custom Desktop Issuance 6.0

User Guide

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INTRODUCTION

CDI is a highly efficient production software program which allows data files to personalize cards.

Embossing

CDI software supports Standard Gothic (A-Z)-9 '/-.,), Farrington 7B (0-9) and other non-standard embossing characters (e.g. tilde N, Russian, Katakana).

Magnetic Stripe Encoding

CDI software supports the following magnetic stripe encoding formats:

- IATA
- ABA
- TTS
- NTT3 (J)

The software also supports the following options selected by the user:

- switching between high coercivity and low coercivity.
- switching between front and rear encoding (internal Smart Card module only)

Indent Printing

CDI software supports MasterCard™ indent (0-9), OCR-B1 (0-9), OCR-A1 (0-9) and Visa Electron™ character set (OCB-B1 A-Z 0-9., / OCR-B4 0-9 /).

Graphics Printing

CDI software supports the ability to print monochrome and color graphic logos/pictures.

Smart Card Personalization

CDI software provides an easy way to use environment for developing smart card applications. A driver provides compatibility with T=0 and T=1 cards. It also provides the capability of reading information from the smart card and returns the results to the application and with the ability to personalize this information. Up to 4 key readers may be used (additional COM ports may be needed).

Smart Card Personalization with Datacard® APM/SCS interface

Custom Desktop Issuance software enables to use Syntera® Customization Suite Software and Datacard® Affina Personalization Manager, Affina Profiles and Scripting, Affina Data Preparation softwares, and all Datacard® Affina products.

Security

Multi-level security is provided so the supervisor can choose which access option each user can control.

Audit Trail

The status of each card is traced for cards completed or cards rejected.

1.1- COMPATIBLE DATACARD EQUIPMENT

CDI software is designed to assist in the production of cards for the following card personalization systems:

- ***Datacard® SP Plus Card Personalization System***
- ***Datacard® SD Card Personalization System***
- ***Datacard® CP Plus Card Personalization System***
- ***Datacard® CD Card Personalization System***
- ***Datacard® CE870 Card Personalization System***
- ***Datacard® UltraGrafix 800 Card Personalization System***
- ***Datacard® DC315GX-FR Card Personalization System***
- ***Datacard® FP65i™ Card Personalization System***
- ***Datacard® SE48 Card Personalization System***
- ***Datacard® 150i Card Personalization System***
- ***Datacard® 275 Series Card Personalization System***
- ***Datacard® 280P Series Card Personalization System***
- ***Datacard® 295 Series Card Personalization System***
- ***Datacard® 450 Card Personalization System***

1.2- PROPRIETARY NOTICE

All drawings and information herein are confidential and proprietary to Datacard ® Corporation. All unauthorized use and reproduction is prohibited. Copyright© 2012 Datacard Corporation. All rights reserved.

1.3- ACKNOWLEDGMENTS

Datacard is a registered trademark and CDI is a trademark of Datacard Corporation. Windows, Windows Server, Windows XP and Windows 7 are registered trademarks of Microsoft Corporation.

2 Installation

2.1- PC REQUIREMENTS

The minimum PC requirements for using CDI software is as follows:

- Pentium 1.5 GHz
- 512 MB of RAM
- Windows XP™, 7™, Server 2003, Server 2008
- DVD-ROM drive
- Screen size 800x600
- 2 USB Ports (or 3 with CP/SP Plus Series connected via USB)

2.2- INSTALLATION

Do not connect CDI dongle before installation of drivers has been completed.

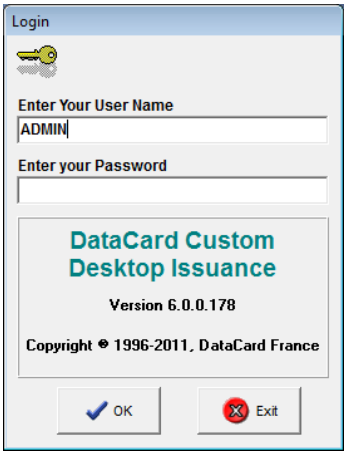
To install the CDI software, do the following:

1. With Windows running, close any open application.
2. Insert the CDI software CD in the CD-ROM drive.
3. Select Start from the main Windows menu, then select Run.
4. Type in D:setup.exe, then select OK. (Where D represents the CD-ROM drive.)
5. Follow the online prompts until the software is successfully installed.

The install procedure gives the following two options:

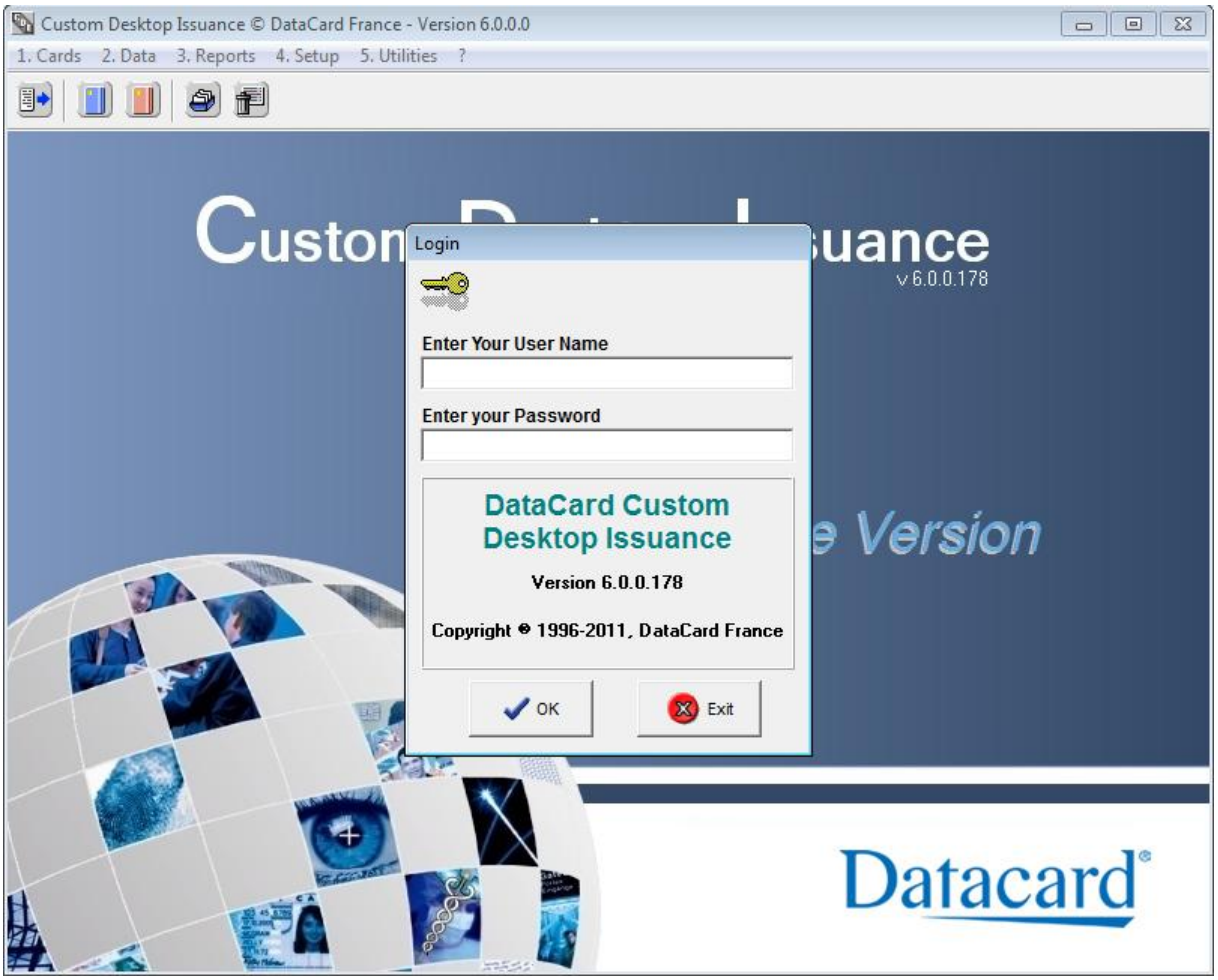
- Typical Installation: The Online Tutorial will be copied on your hard drive along with the operating software. (Requires a minimum of 35 Mbytes disk space on your PC.)
- Compact Installation: The Online Tutorial will not be copied on your hard drive. (Requires a minimum of 10 Mbytes disk space on your PC.)
- Custom Installation. Use this option if you want to customize the installation of the CDI software and its Tutorial.

6. Insert CDI dongle in a free USB port.
7. When prompted to Enter Your User Name, type in **ADMIN**. Password for this user is by default **ADMIN**.



Once the installation process has been completed, CDI must be configured to a Datacard printer. See Hardware Setup Configuration.

3 Using CDI

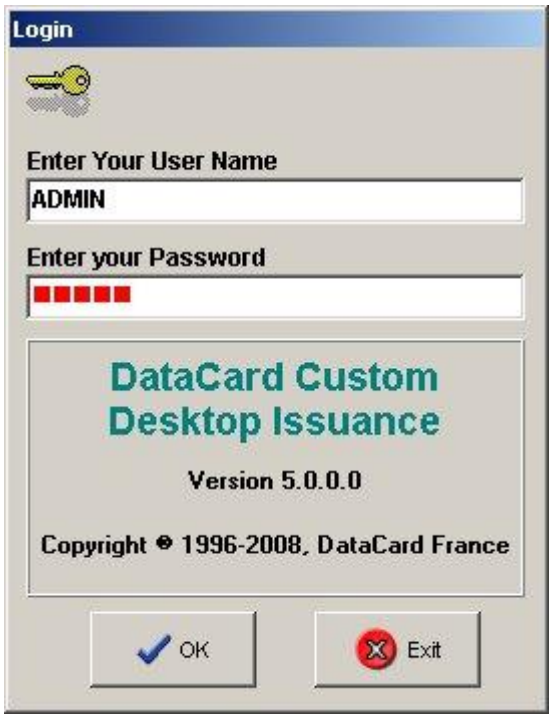


The CDI main window includes 5 drop-down menus:

1-Cards, **2-Data**, **3-Reports**, **4-Setup**, **5-Utilities**.

3.1- LOGGING IN

The following window will appear when the CDI program is launched. For first time users, enter **ADMIN** in the dialog box under “Enter Your User Name.” Enter **ADMIN** in the dialog box under “Enter Your Password.” To change passwords see User/Password.

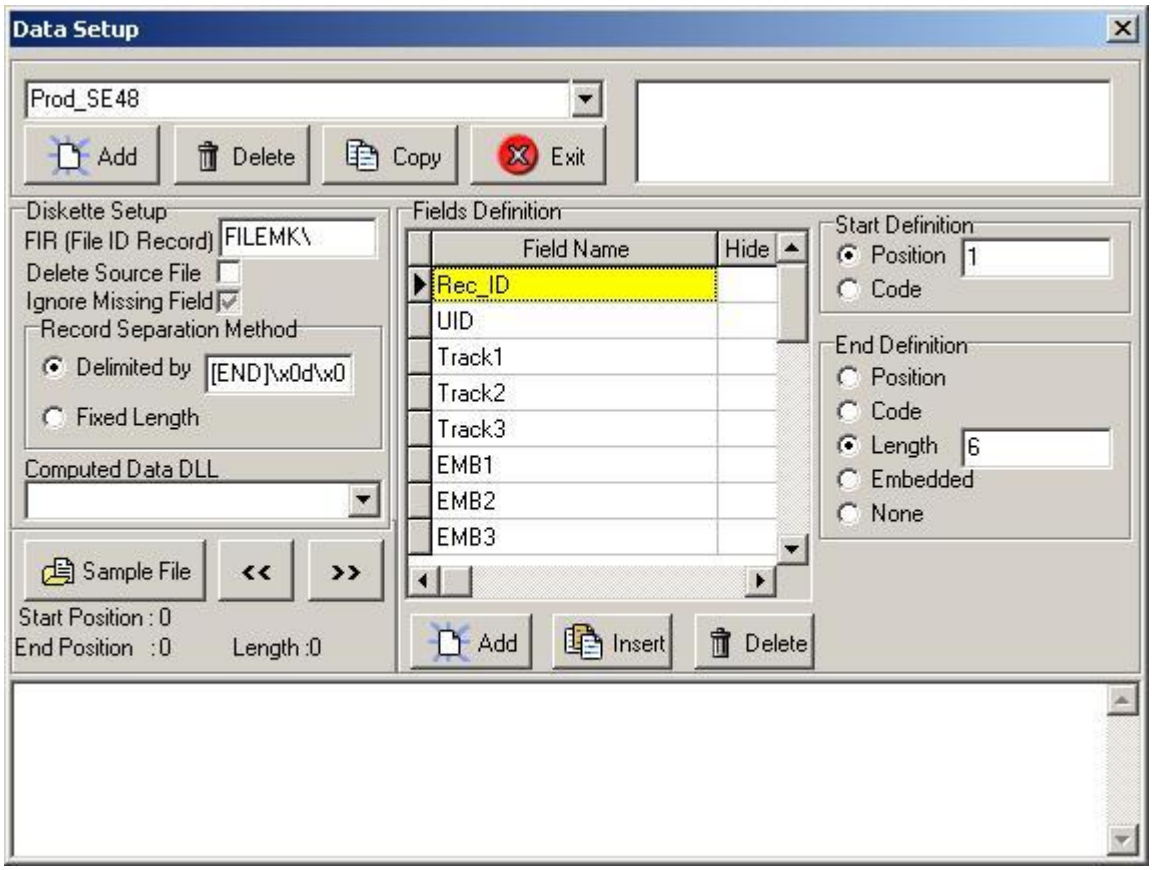


When using CDI, you must perform the setup operations before starting production. Here is the logical order for using CDI for the first time:

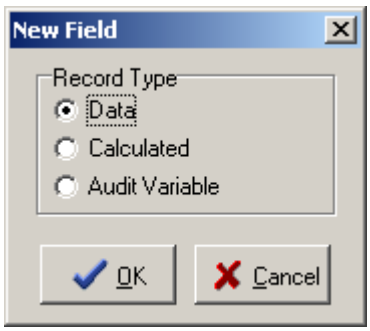
- Define the data setup (see page 9)
- Define the card setup (see page 13)
- Define the machine setup (see page 16)
- Define the audit setup (see page 20)
- To create a job setup, you must first perform the four basic setup functions.
- **Warning**: You cannot delete a setup if it is used to define another setup. You must first delete the setups that include other setups to be deleted.
- Define the job setup (see page 21)
- Load Data (see page 22)
- Make Cards (see page 24)

3.2- DATA SETUP

Select any item in the Data Setup window for information.



- To create a new Data setup, click the **Add** button.
- Optionally modify the description of the Data setup.
- **Optional:** Enter a File ID Record. The FIR is a special record allowing information to be transferred to the operator and does not affect production.
- When Delete Source File is checked input file will be deleted after being loaded. This is a security option to avoid producing the same cards twice by loading the same data twice
- Select Separation Method for each record.
- Select Computed Data DLL and select a stored DLL name. This DLL computes the data from the input file during the Load Data operation.
- Open a Sample file
- Add Fields (Data, Calculated or Audit Variable).



Add a new field. Make sure one of the new field types is checked:

- Data: data field extracted from the input file
- Calculated: data field extracted from the input file and then combined into a Wizard Expression as part of the Calculated Field window. Available functions for these calculated fields are listed in section 3.2.2 page 11.
- Audit Variable (**for SCS/APM/APS/GP use only**): you can define several types of audit fields (depending on personalization application):
    - ACCEPT_CODE_A: OK code sent by dll
    - DLL_ERROR_A: error code sent by dll
    - AUDIT_A1: audit field 1
    - AUDIT_A2: audit field 2
    - Etc.

NB: if you have more than one chip application, you can define separate audit fields for each application using: ACCEPT_CODE_B, DLL_ERROR_B, AUDIT_B1, AUDIT_B2, etc.

3.2.1- Data Setup for Smartcard (SCS/APM connected)

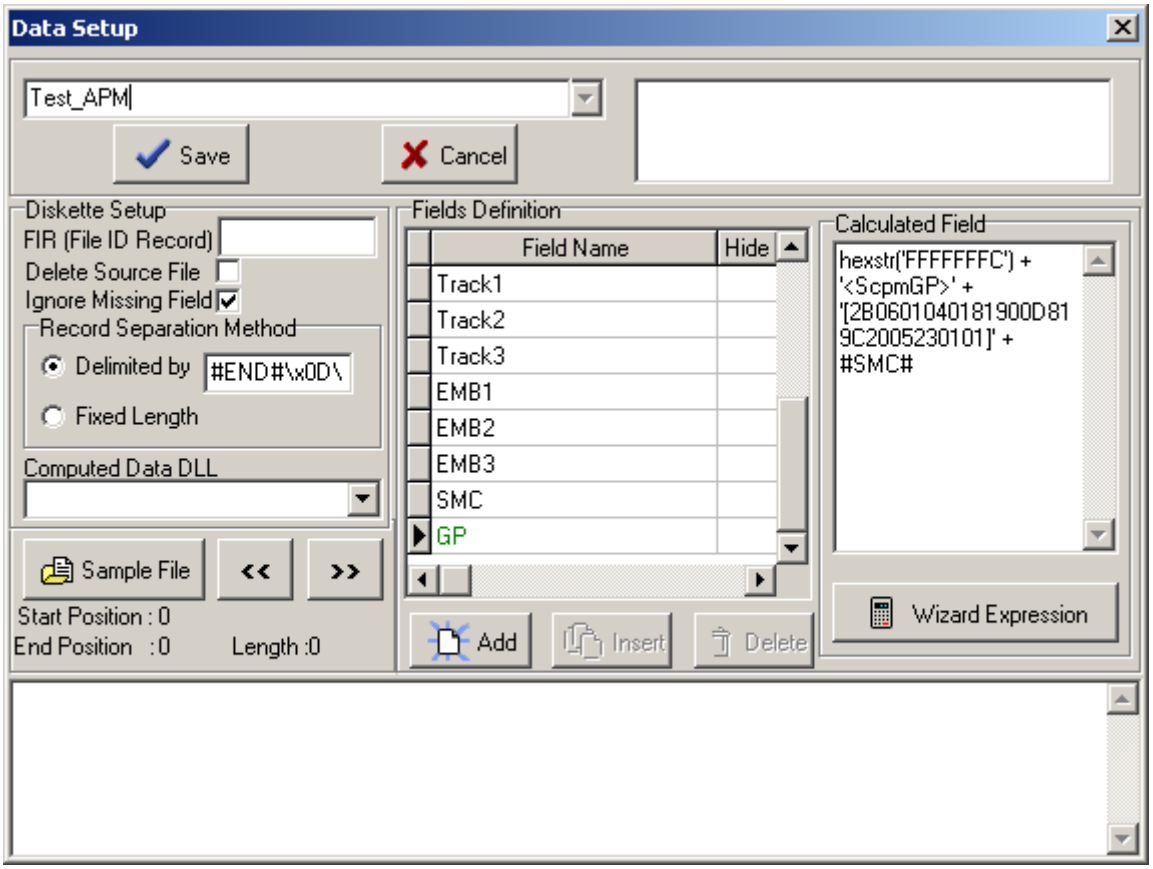
- Add a new Data field for Smartcard data, with usual start code.

Example for GP (add Calculated field):

hexstr('FFFFFFFC') + '<ScpmGP>' + '[2B0601040181900D819C2005230101]' + #SMC#

Example for APS (add Calculated field):

hexstr('FFFFFFFC') + '<AffinaPS>' + '[2B0601040181900D819C2005230202]' + #SMC#



3.2.2- Available functions for calculated fields

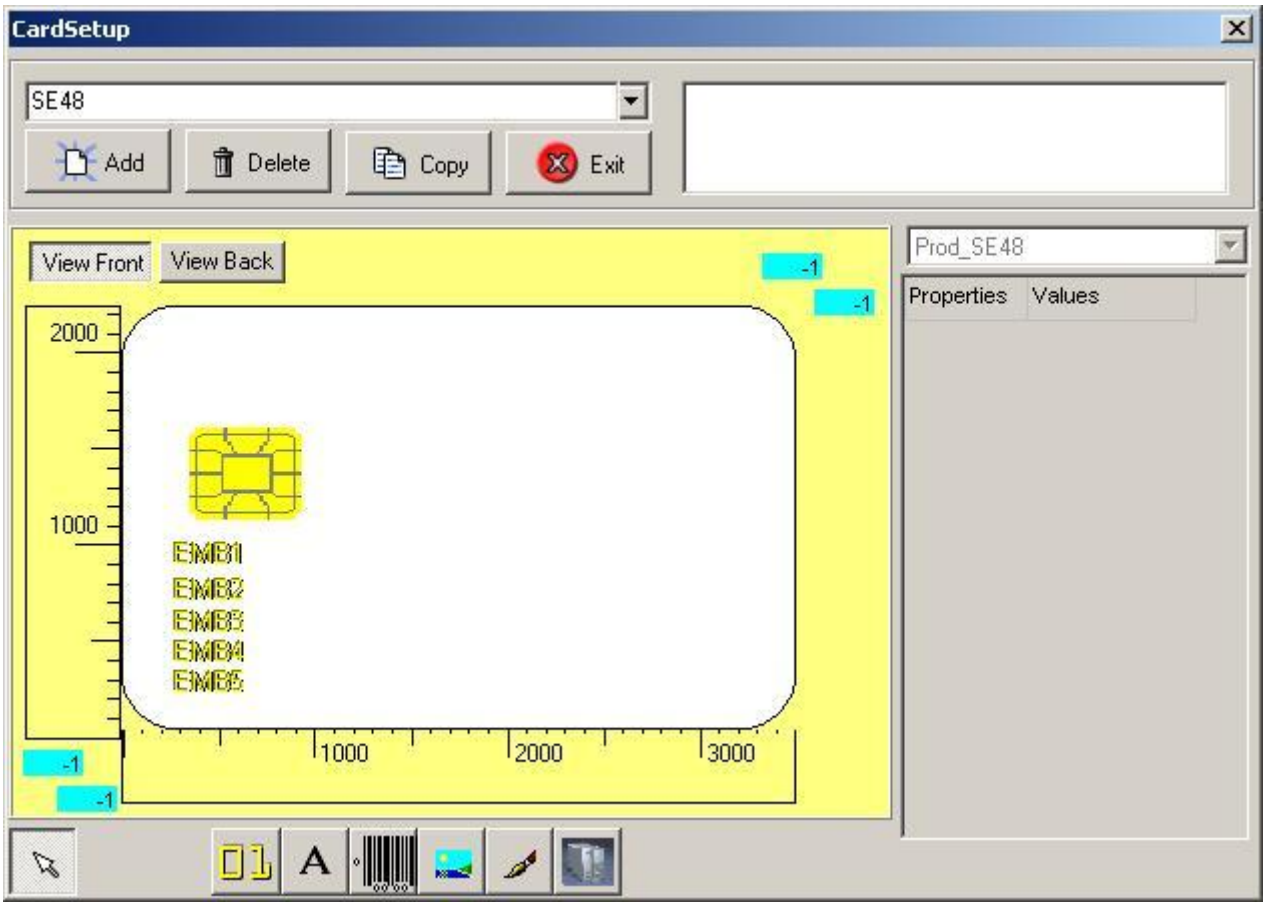
The available functions for calculated fields are the following:

- **PI**(): Mathematical *Pi* constant (3.14159)
- **E**(): Mathematical *e* constant (2.71828)
- **Sin**(x): Trigonometric *sine* function for angle x
- **Random**(x): Random function returns an integer between 0 and x
- **Trunc**(x): Truncate function returns the biggest integer lower or equal to decimal x
- **Round**(x): Round function returns the nearest integer to decimal x
- **Exp**(x): Mathematical *exponential* function e^x
- **Cos**(x): Trigonometric *cosine* function for angle x
- **Ln**(x): Mathematical *natural logarithm* function of number x
- **Log10**(x): Mathematical *logarithm* function of number x to base 10
- **Log2**(x): Mathematical *logarithm* function of number x to base 2
- **Abs**(x): Mathematical *absolute value* function |x|
- **ArcTan**(x): Inverse trigonometric *arctangent* function for value x
- **Sqr**(x): Mathematical *square* function for number x
- **Sqrt**(x): Mathematical *square root* function for number x
- **Tan**(x): Trigonometric *tangent* function for angle x
- **CoTan**(x): Trigonometric *cotangent* function for angle x
- **ArcSin**(x): Inverse trigonometric *arcsine* function for value x

- **ArcCos**(x): Inverse trigonometric *arccosine* function for value x
- **HexStr**(x): Returns the binary characters corresponding to the hexadecimal string x

3.3- CARD SETUP

Select any item in the Card Setup window for information.



- Because each card and machine hardware setup varies, some options may not be available.
- Below is a display of some of these options (use mouse pointer above below icons to get informations).

Use this window to define the card setup for the Machine on which you will make the cards.

- To create a new card setup, click the **Add** button.
- Choose Data Setup in the right dropdown list
- Create the design of the card by selecting a component, then clicking on the card to insert this component
- Select for each component on the card the field name from the card setup in the right pane (see dropdown list for Data Field entry).

Chip Field

Selecting the Smart Card button allows the inserting of a smart card chip and linking it to a data field in Data Setup. In Field Name, select the name of the field of the records linked to the Smart Card module.

Stripe Field

Selecting the Magnetic Stripe button allows inserting magnetic stripe information and linking it to a data field in Data Setup. In Field Name, select the name of the record fields corresponding to the magnetic stripe.

The display position of AFNOR and ISO are for visual information only.

Emboss Field

Selecting the Embossing button makes it possible to insert an embossed line and linking it to a data field in Data Setup. In Field Name, select the name of the record fields to be linked to the embossed line. The coordinates can be moved manually or by clicking on the embossed line and moving it with the mouse. A Font must also be selected. The font size is expressed in cpi (characters per inch): the higher value corresponds to the smaller font. Same thing for OCR (Optical character recognition) fonts.

Customer Desktop Issuance software allows indent printing. Depending on the machine you are using (SE48, 150i, FP65i, DC280 or DC315GX-FR), you will be able to print front indent and/or back indent:

- OCR7 on the front side of the card
- OCR10 on the back side of the card
- OCR14 and OCR15 inverted on the back of the card (if you have specific Mastercard or Visa font kit installed on your embosser)

Ultragrafix Field

Selecting the Graphics Line button allows inserting a graphics line and linking it to a data field in Data Setup. In Field Name, select the name of the record fields linked to the graphics line. The coordinates can be moved manually or by clicking on the graphics line and moving it with the mouse. The graphics Line can be justified and the font selected.

BarCode Field

Selecting the Barcode button allows inserting a barcode and linking it to a data field in Data Setup. In Field Name, select the name of the record field linked to the barcode. The coordinates can be moved manually or by clicking on the Barcode and moving it with the mouse.

Use this button just for machines working with CPX protocol (SE48, …). For other printers, if you want to print a BarCode you need to use Color Text Field and a specific font (you can download BarCode fonts on Internet).

Logo Field

Selecting the Logo button allows inserting a fixed logo/picture. In Picture, select the path and name of the logo that you want to print on the card. The coordinates can be moved manually or by clicking on the Logo and moving it with the mouse.

Color Text Field

Selecting the Color Text button allows inserting a color (or monochrome) text line and linking it to a data field in Data Setup. In Data Field, select the name of the record fields linked to the text line. The coordinates can be moved manually or by clicking on the text line and moving it with the mouse. The text line can be justified and the font selected.

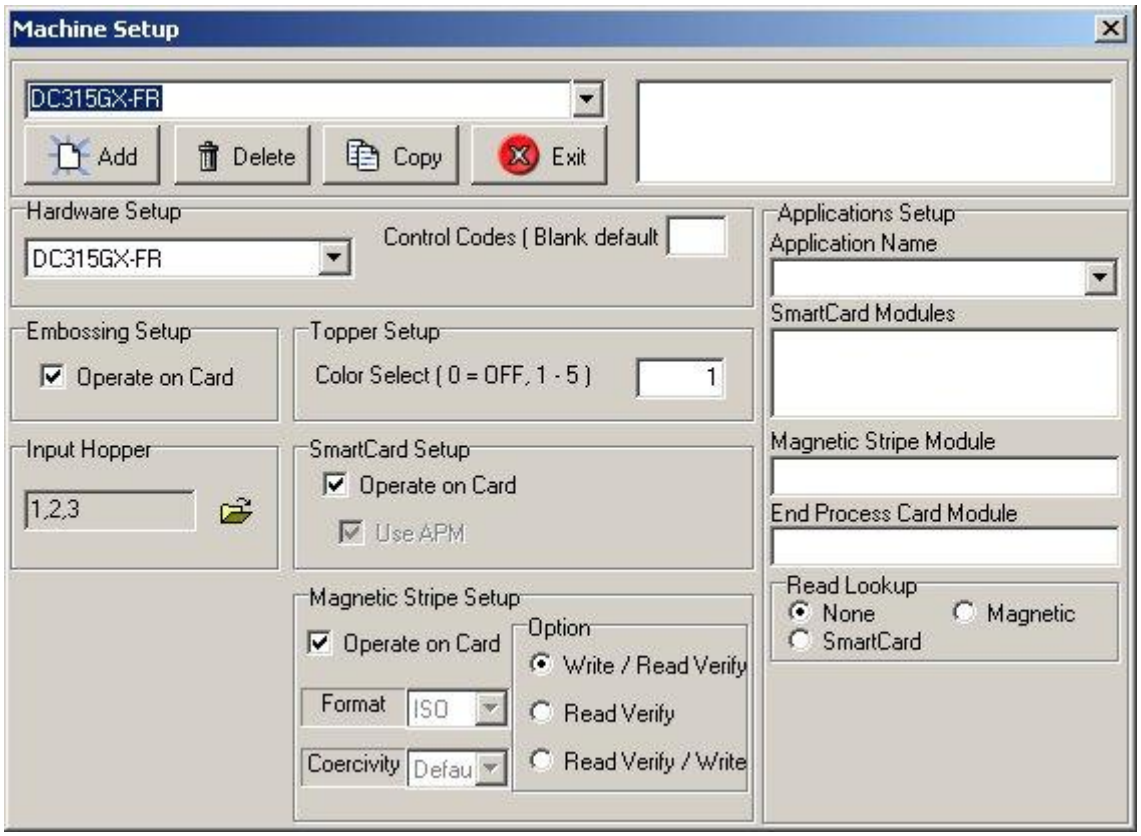
The monochrome ribbon for SP/CP printers is considered as Color module in CDI.

Picture Field

Selecting the Picture button allows inserting a picture and linking it to a data field in Data Setup. In Data Field, select the name of the picture field linked to the picture. The coordinates can be moved manually or by clicking on the text line and moving it with the mouse. The text line can be justified and the font selected.

3.4- MACHINE SETUP

Select any item in the Machine Setup window for information.



Use this window to define the setup for the Machine on which you will make the cards.
NB: Depending on the type of the machine, the above window panes may be different.

- To create a new machine setup, click the **Add** button.
- Optionally modify the description of the machine setup.
- Select the Hardware setup for your machine
- Embossing Setup: select Operate on Card to perform embossing (**Warning**: select this option anyway if you just want to perform chip personalization)
- SmartCard Setup: select Operate on Card to perform chip personalization (and Use APM if you use Scpm dll application, Affina Profiles and Scripting or Global Platform Scripting)
- Magnetic Stripe Setup: select Operate on Card to write and/or Read Verify magnetic stripe

Warning: Machine Setup refers to Hardware setup configuration. See 5.4.1- Hardware Setup

Ultragrafix Setup *(for Ultragrafix machines)*

Make sure Operate on Card is checked if graphics printing is desired on a production card.

Embossing Setup *(for Embossers)*

Make sure Operate on Card is checked if Embossing is desired on a production card.

Topper Setup *(depending on the type of the machine)*

Make sure Operate on Card is checked if Topping is desired on a production card. Select a number from 1 to 5 for heat control of the topper platen. Foils require different heat level settings.

Magnetic Stripe Setup

Make sure Operate on Card is checked if a Magnetic Stripe encoding is desired on a production card. On 150i printers only, make sure to select the coercivity (Hico or Loco).

SmartCard Setup *(if a coupler is used)*

Make sure Operate on Card is checked if a Smart Card option is used on a production card.

Depending on the type of the machine, make sure Front Chip is checked if the Smart Card is on the front side of the production card or Back Chip is checked if on the backside of the production card.

SmartCard Module *(if a coupler is used)*

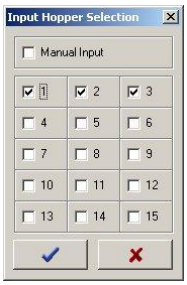
Selected smart card applications are displayed in this box (not used with Use APM option).

Control Codes *(28X printers only)*

Refer to the 28X Operator's manual for explanation of the control codes or leave blank as a default.

Options Table *(28X printers only)*

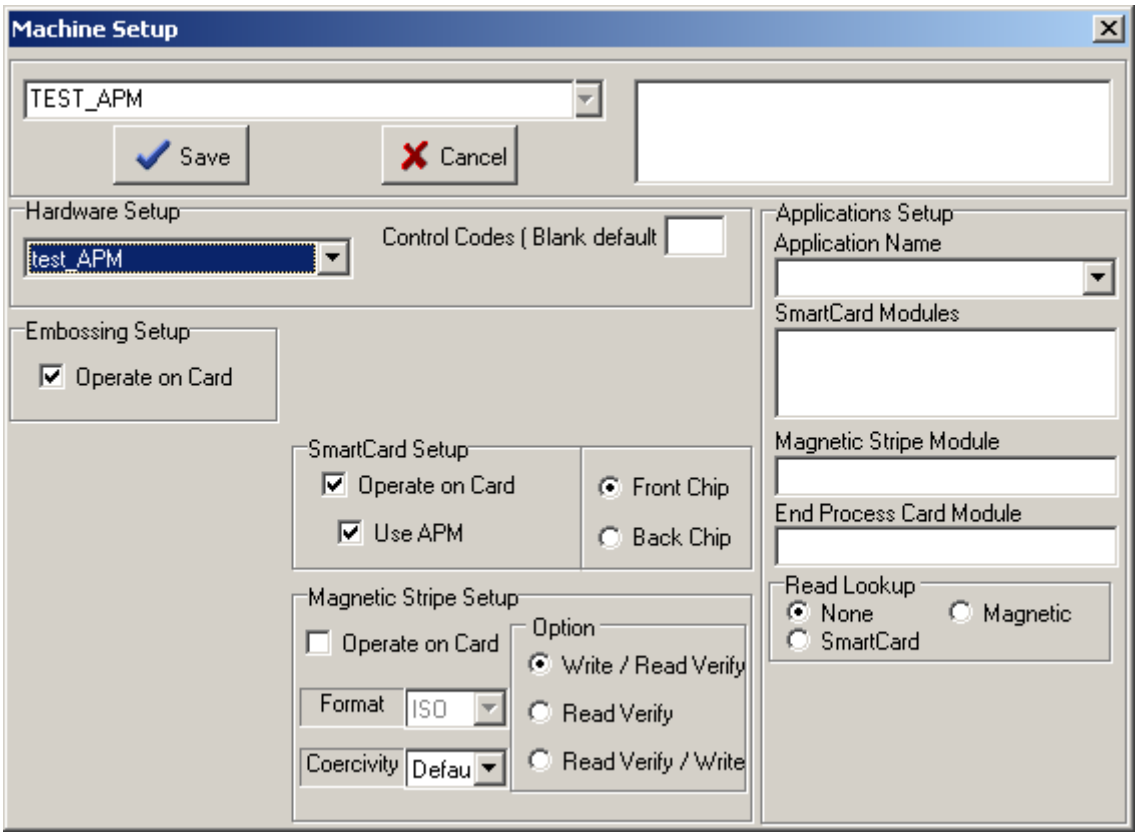
Allows the selection of the 28X printer option control table. Up to 9 different configuration options can be selected. Refer the 28X Operators' manual for details.



Input Hopper *(DC315GX-FR only)*

Allows to select the DC315GX-FR input hoppers to be used during the production. Max configuration: 15 input hoppers. Hoppers selected by user will be activated during the production. If one selected hopper is empty (no card inside) machine will automatically switch on the next selected hopper.

3.4.1- Configure Machine Setup for SCS/APM



In Machine Setup:

- **Operate on Card** and **Use APM** must be checked.
- **Operate on Card** in Embossing Setup must be checked (use or not Embossing).

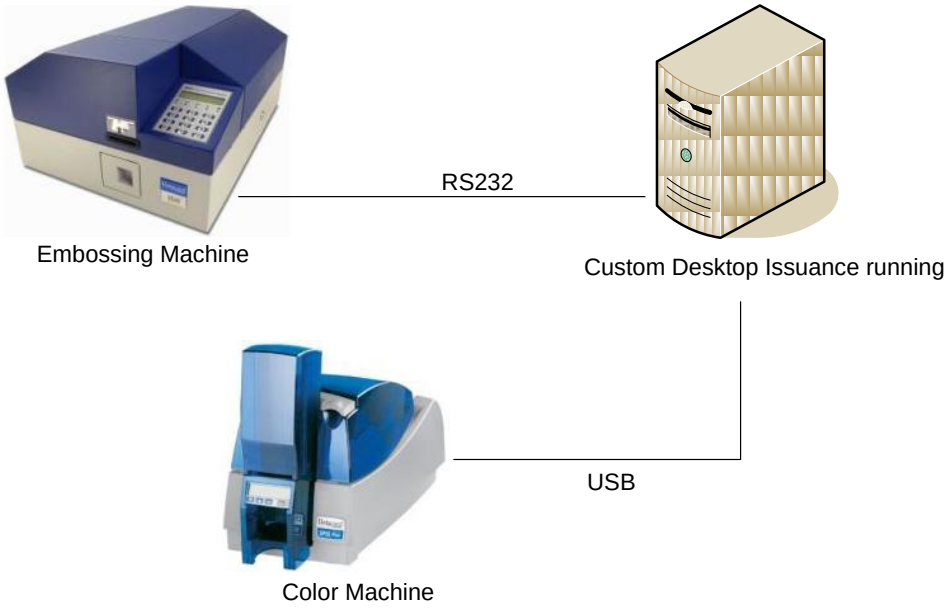
3.4.2- Configure Machine Setup for Read Lookup

Overview:

This solution is used to encode magstripe, write color data on the card, then read magstripe and emboss the card according to magstripe data.

NB: 2nd step can be used with pre-encoded cards too.

Hardware installation connection:

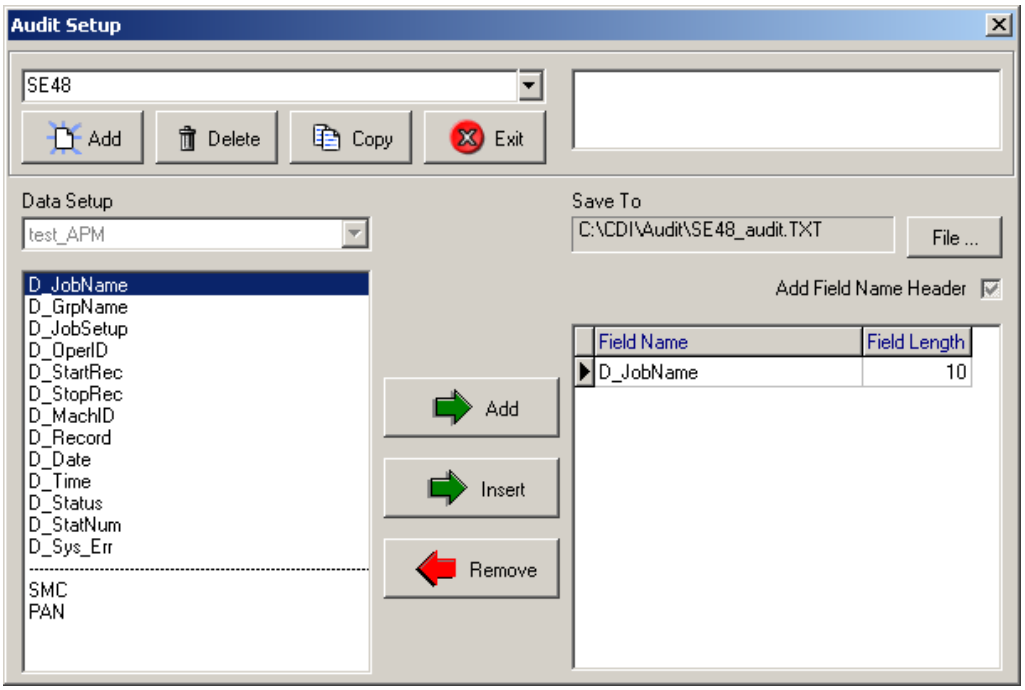


Sample file:

0000001[PIC]Ice1.bmp[ENC]%B5132830000000034^CARTE DE TEST XX/ ^94091016010361986067
?;5132830000000034=940910160103619860 67?[GFX]Name Bank[EMB]Card Holder Name 1[END]
0000002[PIC]Ice2.bmp[ENC]%B5132830000000034^CARTE DE TEST XX/ ^94091016010361986067
?;5132830000000034=940910160103619860 67?[GFX]Name Bank[EMB]Card Holder Name 2[END]
……..
0000009[PIC]Ice9.bmp[ENC]%B5132830000000034^CARTE DE TEST XX/ ^94091016010361986067
?;5132830000000034=940910160103619860 67?[GFX]Name Bank[EMB]Card Holder Name 9[END]

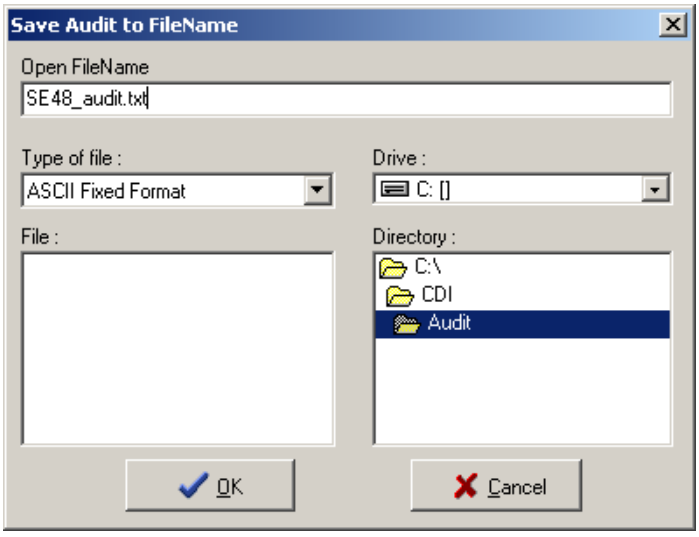
3.5- AUDIT SETUP

Select any item in the Audit Trail Setup window for information.



- To create a new Audit setup, click the **Add** button.
- Optionally modify the description of the Audit setup.
- Choose Data Setup in the left dropdown list
- Add each field (from the left list) to be exported in an Audit File (right list). **Note**: all fields starting with D_ are System fields. Other fields are fields from Data Setup.
- Click on File to define the path where the audit trail will be saved.

Select any item on the Save Audit to FileName window for information.



3.6- JOB SETUP

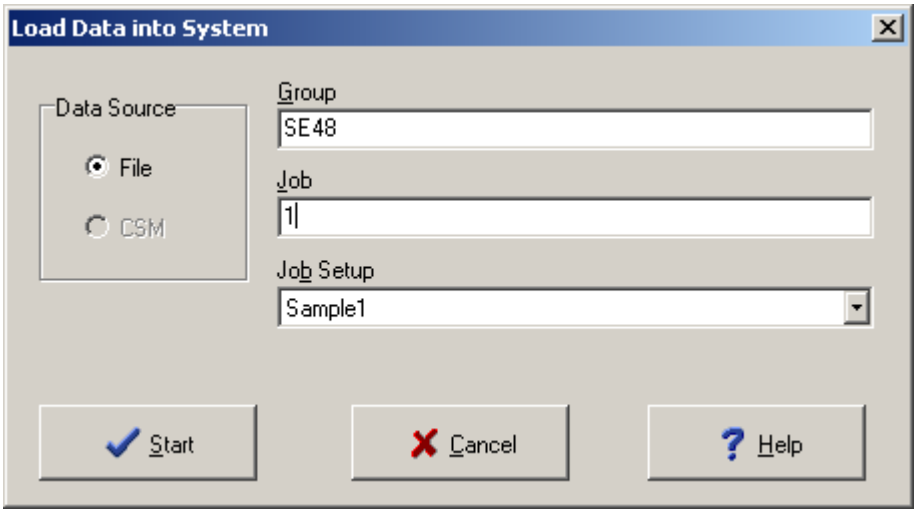
Select any item in the Job Setup window for information.

Use this window to define the job setup for make the cards.

- To create a new job machine setup, click the **Add** button.
- Select the appropriate Machine Setup for your setup
- Select the appropriate Card Setup for your setup
- Select the appropriate Data Setup for your setup
- Select the appropriate Audit Trail Setup for your setup

3.7- LOAD DATA

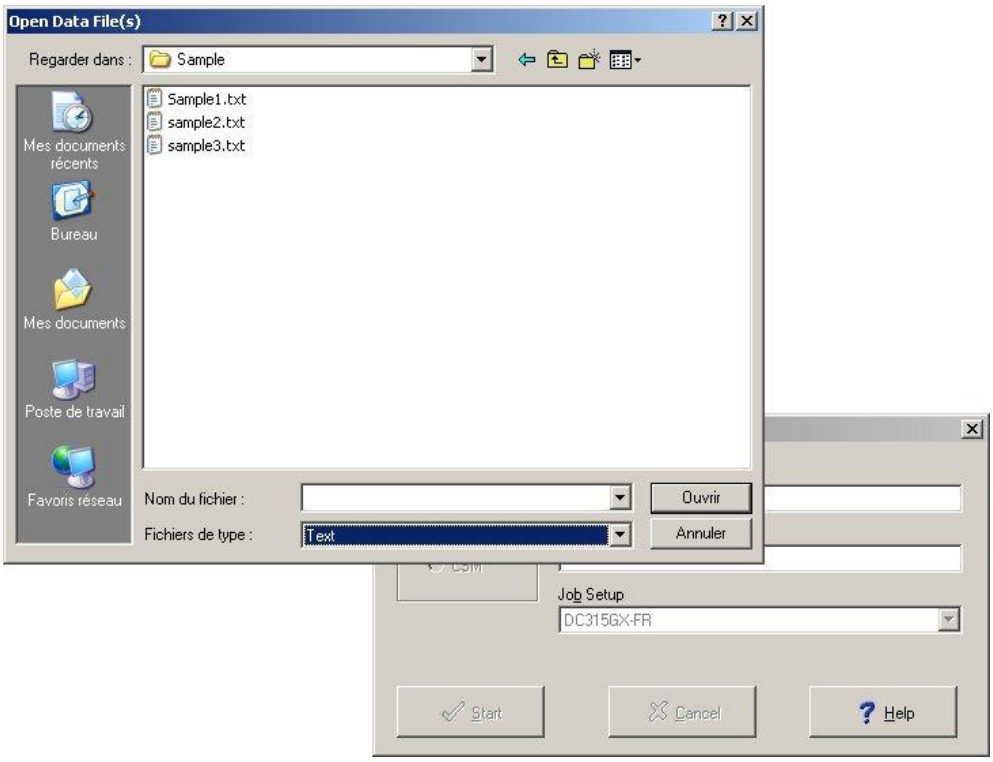
Select any item in the Load Data into System window for information.



Selecting a job

- Enter a **Group** name in the text field.
- Enter a **Job** name in the text field (optional).
- Select the **Job Setup** from the dropdown list.
- Click the **Start** button.

⇒ *The **CDI List** window appears:*



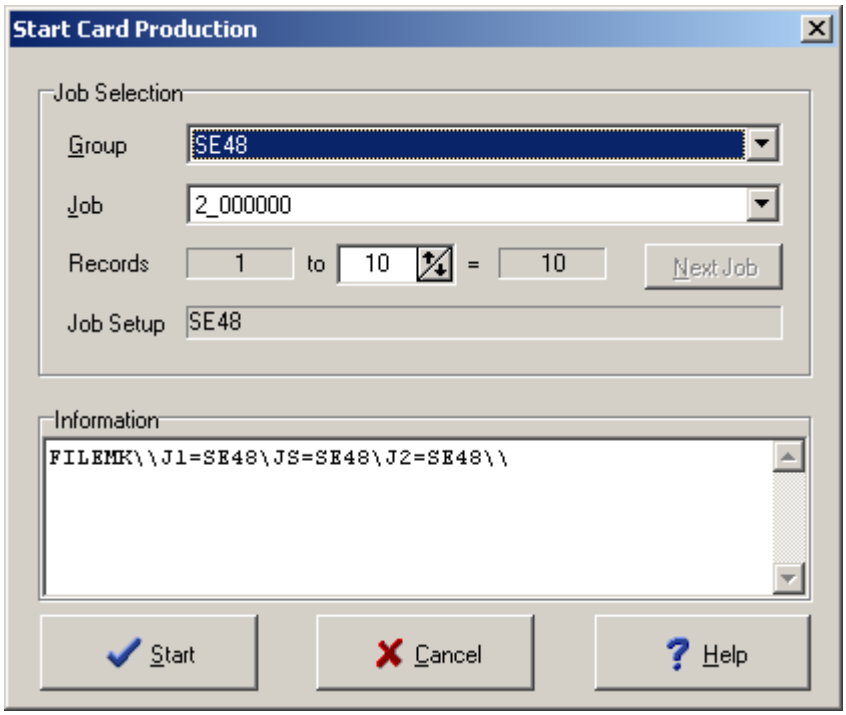
Depending on the security constraints of the making cards operations to be performed, this may be a sensitive task. Therefore it can be disabled or subject to special authorization.

3.8- MAKE CARDS

Production can start as soon as the following conditions have been met:

- All setups have been configured in accordance with the machine being used.
- All data has been entered.

It is essential the machine is set to receive information.
Select any item in the Start Card Production window for information.



Use this window to start letter production. It includes a **Job Selection** section for selecting a group, a job within a group, and the records to be generated. The **Information** window displays the contents of the FIR.
Click the **Start** button to launch production.

⇒ *The FIR (First Input Record) lets you divide the input data stored in a single input file into different production jobs.*

Selecting a job

- Select the **Group** from the dropdown list.

⇒ *A group is the unit for loading make cards in CDI.*
A group may include one or more input files and several jobs for each file.

- Select the **Job** from the dropdown list.

⇒ *Only groups and jobs with cards that have not been processed appear in the list.*

⇒ *The number of the first **record** with the "Not made" status is displayed, as well as the number of the last record.*

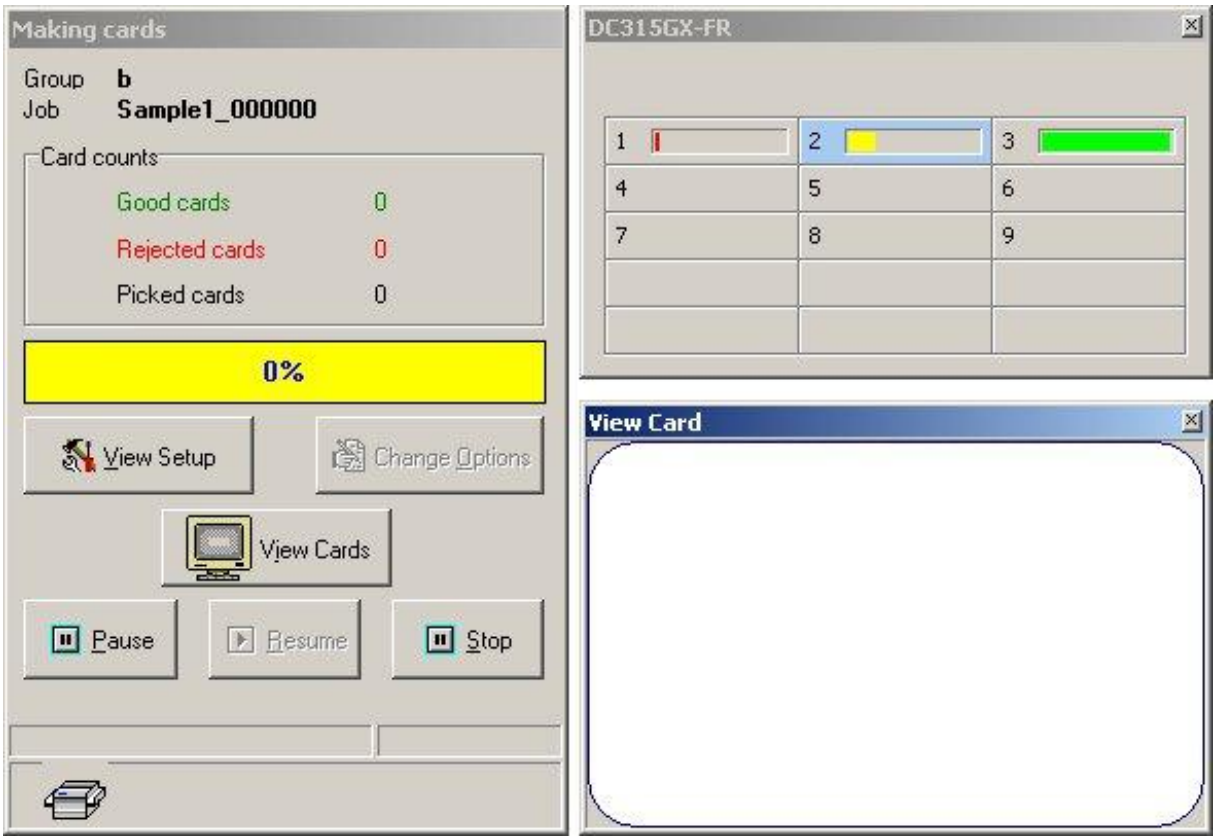
- Click the arrows to select the last record to be produced.

⇒ *The total number of records to be produced is displayed.*

⇒ *The status of these records is "Not made": they are neither "bad" nor "held".*

- To start production, click the **Start** button.

⇒ *The **Making Cards** window appears.*



3.9- MAKE CARDS FROM LIST

It is essential the machine is set to receive information.
Production can start as soon as the following conditions have been met:

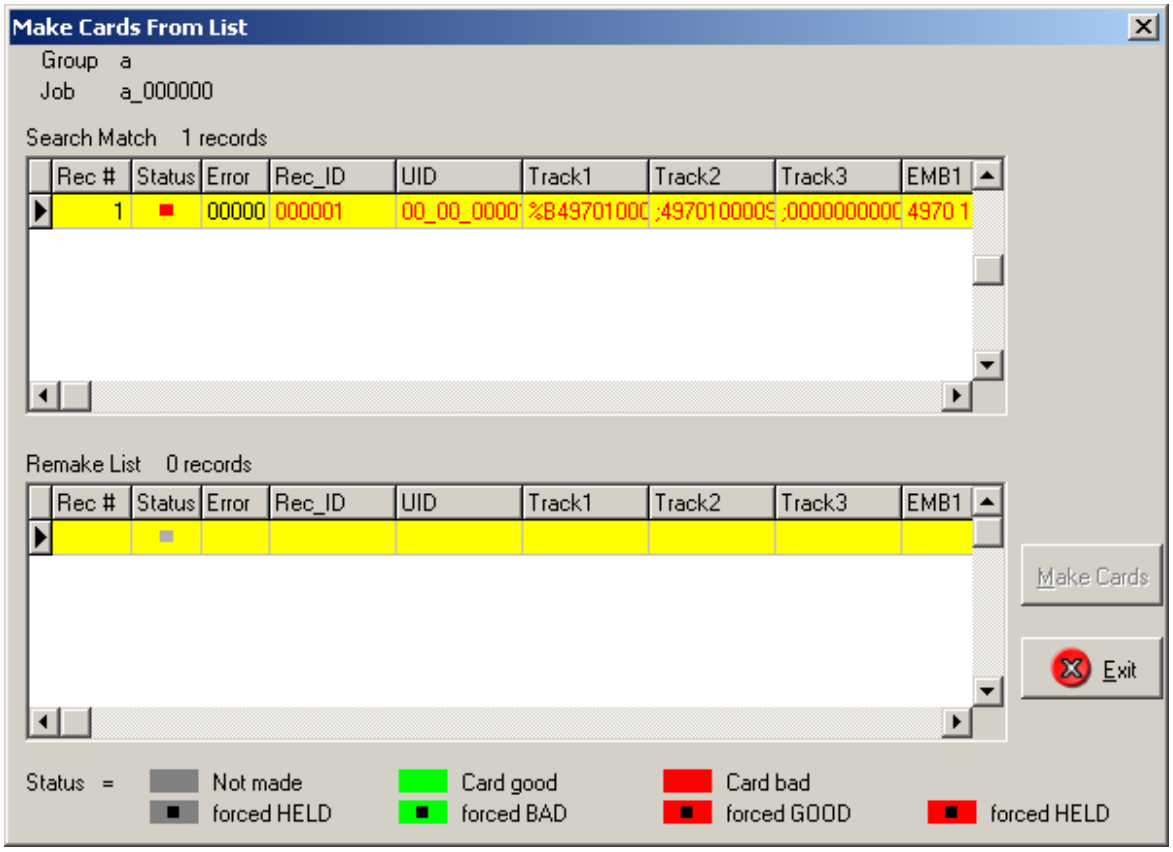
- All setups have been configured in accordance with the machine being used.
- All data has been entered.

By selecting Cards - Make Cards from List, failed cards can be processed in a given Group/Job.
Select any item in the Remake List, Select Group, and Job window for information.

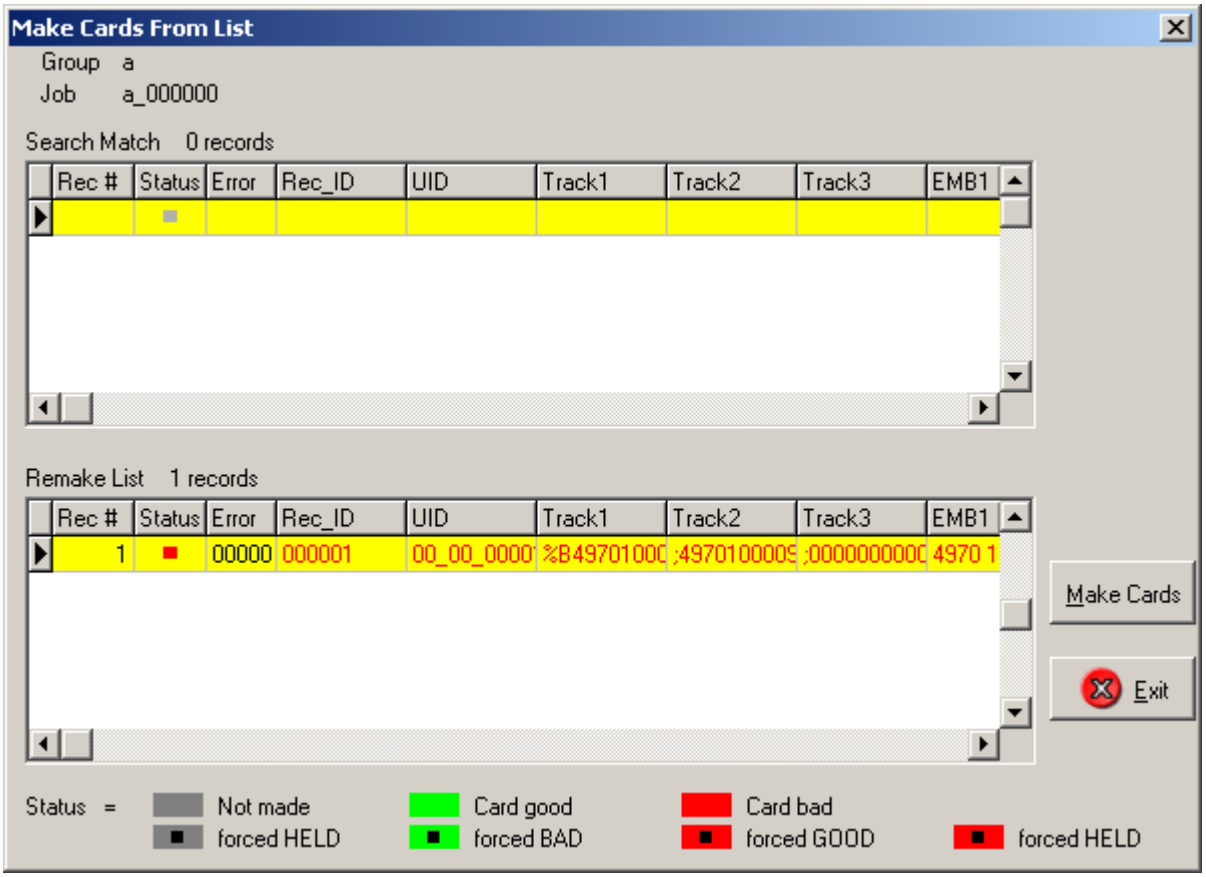
Use this window to select individual records to be produced. The name of the group and the job are displayed at the top of the window. This window includes two tables (the columns represent the fields defined in the data settings. The upper table contains Not made records, and the bottom table contains the records selected to be printed.

Each record has a status: a list of status values appears at the bottom of the window.

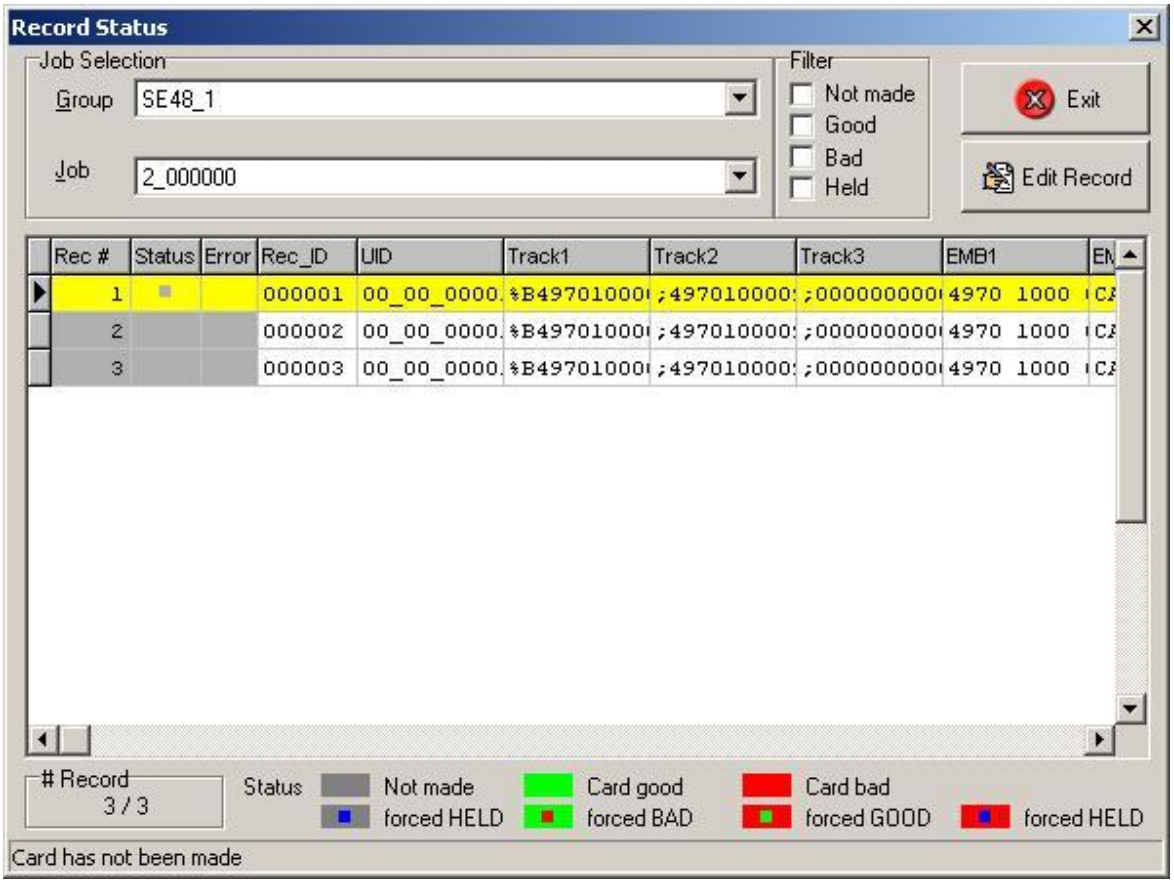
- In the upper table, double-click a record to move it to the **Remake list** table below.



- To start making cards, click **Make Cards** button.


Make Cards From List
Group a
Job a_000000
Search Match 0 records
Rec # Status Error Rec_ID UID Track1 Track2 Track3 EMB1
Remake List 1 records
Rec # Status Error Rec_ID UID Track1 Track2 Track3 EMB1
1 00000 000001 00_00_0000 %B4970100(;4970100009 ;0000000000(4970 1
Make Cards
Exit
Status =
Not made
forced HELD
Card good
forced BAD
Card bad
forced GOOD
forced HELD

3.10- RECORD STATUS



Record Status-Filter

To edit a card, select a card status by making sure the appropriate box is checked. All records are displayed unless one or more of the options below are checked.

Not made Selects all cards that have not been produced.
Good Selects all completed cards.
Bad Selects all faulty cards.
Held Selects all hidden cards (produced or not).

Record Status

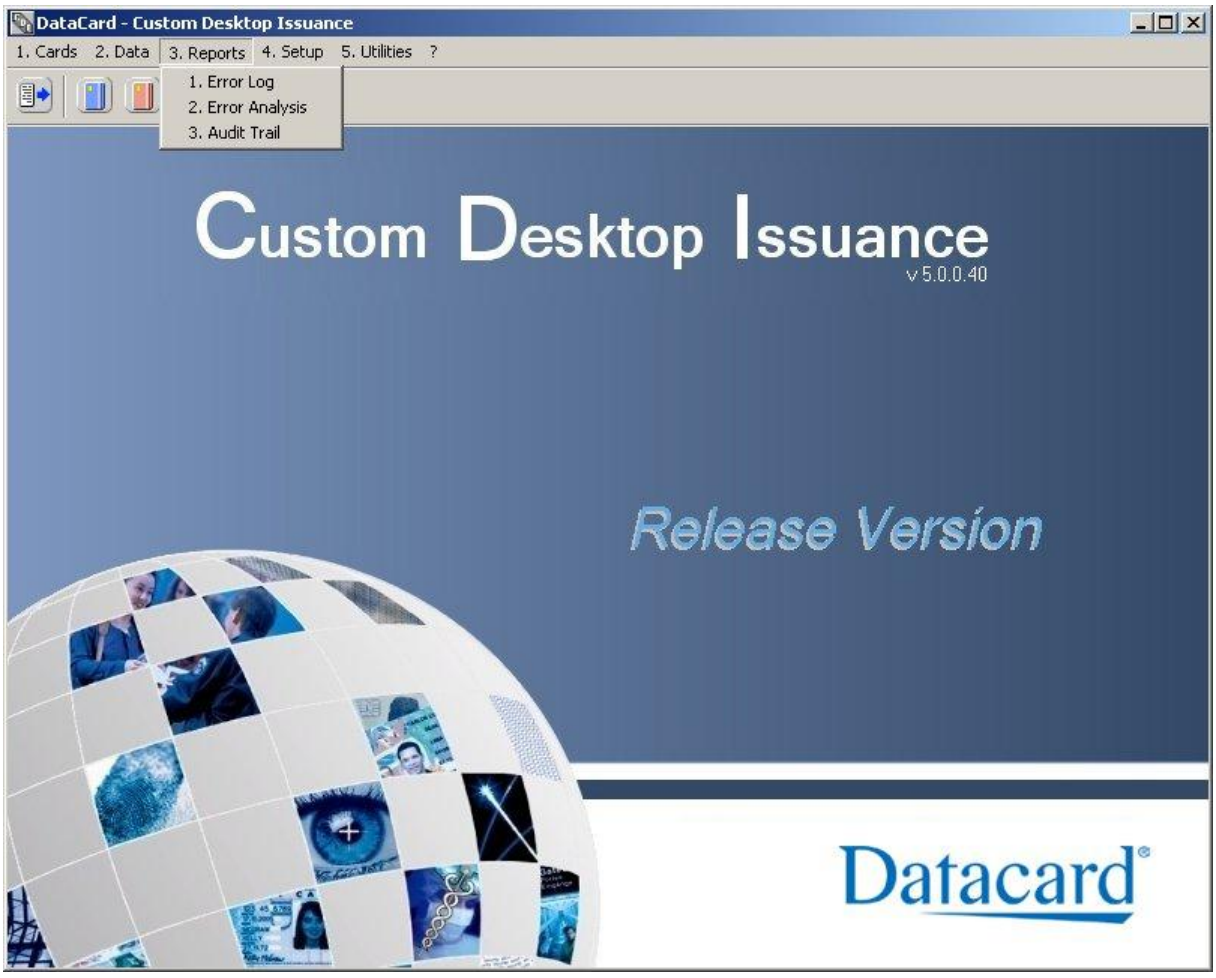
Status Symbols:

	Not made	Card has not been produced.
	Forced held	Hides a non produced card.
	Good card	Card has been produced.
	Forced bad	Makes a good card appear as a bad card.
	Bad card	Card has been incorrectly produced.
	Forced good	makes a bad card appear as a good card.
	Forced held	Hides a bad card.

➔ Double click on any record row to force a status change.

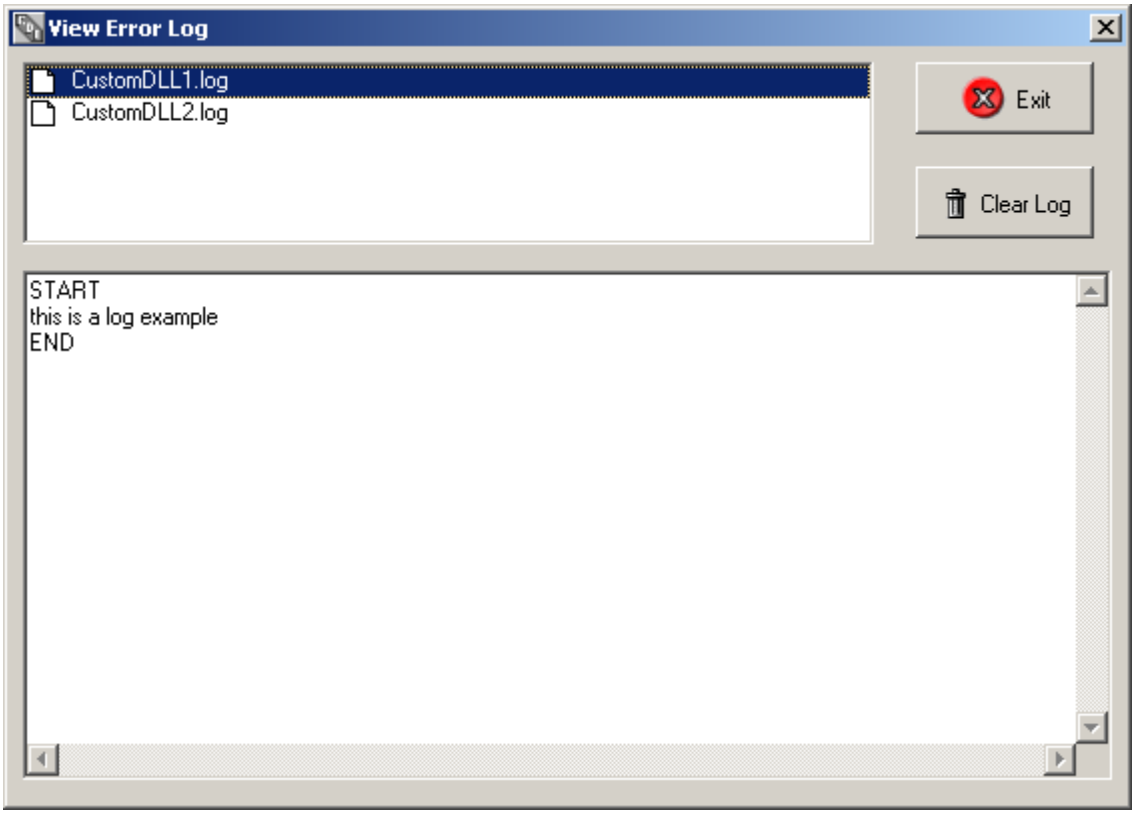
3.11- VIEW THE PRODUCTION LOG

Select any item on the Reports pull-down menu bar for information.



3.11.1- Error Log

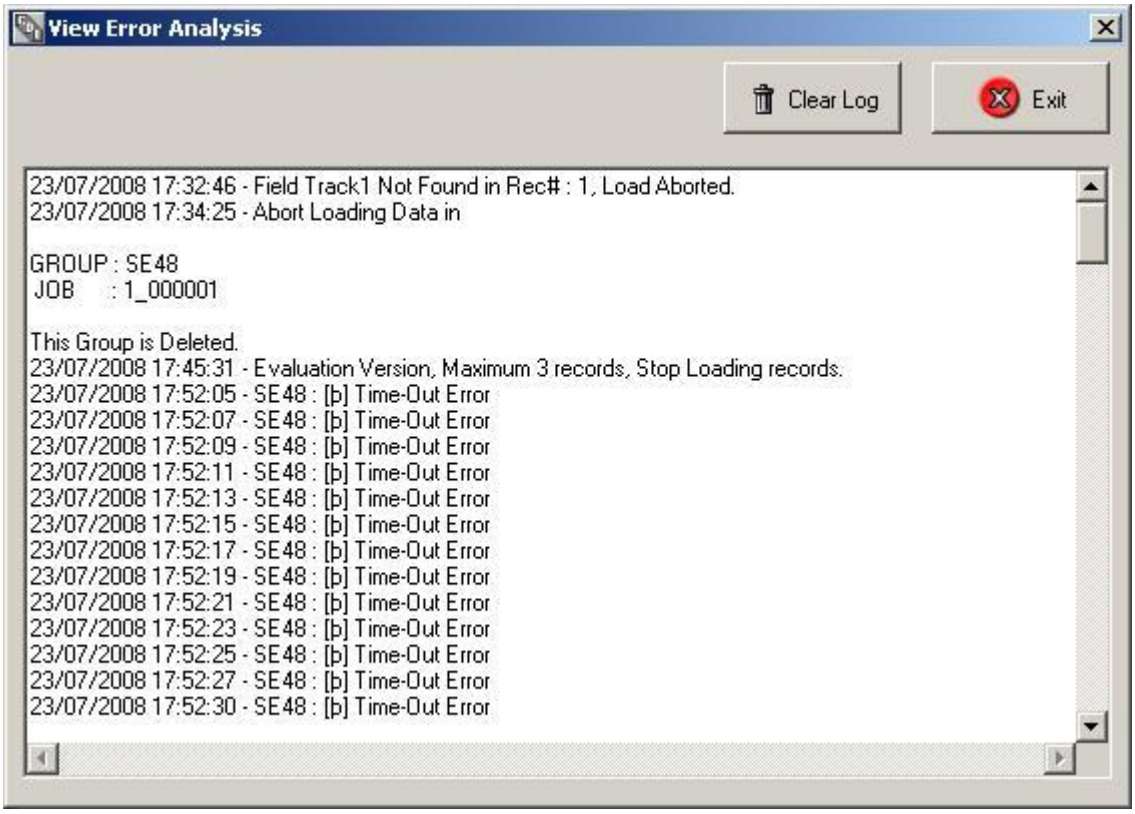
This window display log files generated by custom DLLs.
Select any item in the View Error Log list window to display its content.



- Select any item in the View Error Log list window for information.
- Press Clear Log button to empty error log file

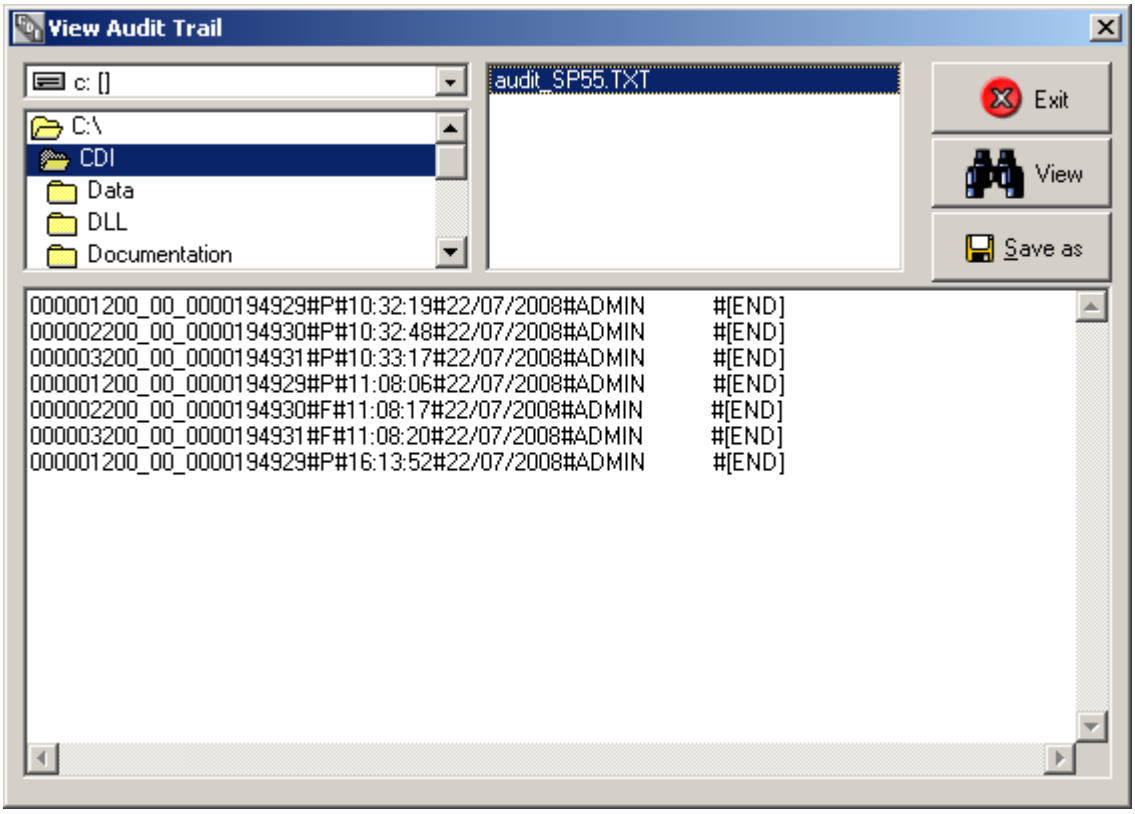
3.11.2- Error Analysis

Select any item in the View Error Analysis window for information.


View Error Analysis
Clear Log
Exit
23/07/2008 17:32:46 - Field Track1 Not Found in Rec# : 1, Load Aborted.
23/07/2008 17:34:25 - Abort Loading Data in
GROUP : SE48
JOB : 1_000001
This Group is Deleted.
23/07/2008 17:45:31 - Evaluation Version, Maximum 3 records, Stop Loading records.
23/07/2008 17:52:05 - SE48 : [þ] Time-Out Error
23/07/2008 17:52:07 - SE48 : [þ] Time-Out Error
23/07/2008 17:52:09 - SE48 : [þ] Time-Out Error
23/07/2008 17:52:11 - SE48 : [þ] Time-Out Error
23/07/2008 17:52:13 - SE48 : [þ] Time-Out Error
23/07/2008 17:52:15 - SE48 : [þ] Time-Out Error
23/07/2008 17:52:17 - SE48 : [þ] Time-Out Error
23/07/2008 17:52:19 - SE48 : [þ] Time-Out Error
23/07/2008 17:52:21 - SE48 : [þ] Time-Out Error
23/07/2008 17:52:23 - SE48 : [þ] Time-Out Error
23/07/2008 17:52:25 - SE48 : [þ] Time-Out Error
23/07/2008 17:52:27 - SE48 : [þ] Time-Out Error
23/07/2008 17:52:30 - SE48 : [þ] Time-Out Error

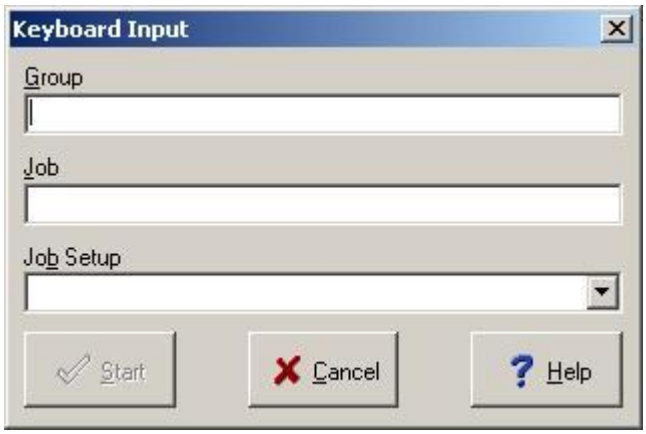
3.11.3- Audit Trail

Select any item in the View Audit Trail window for information.

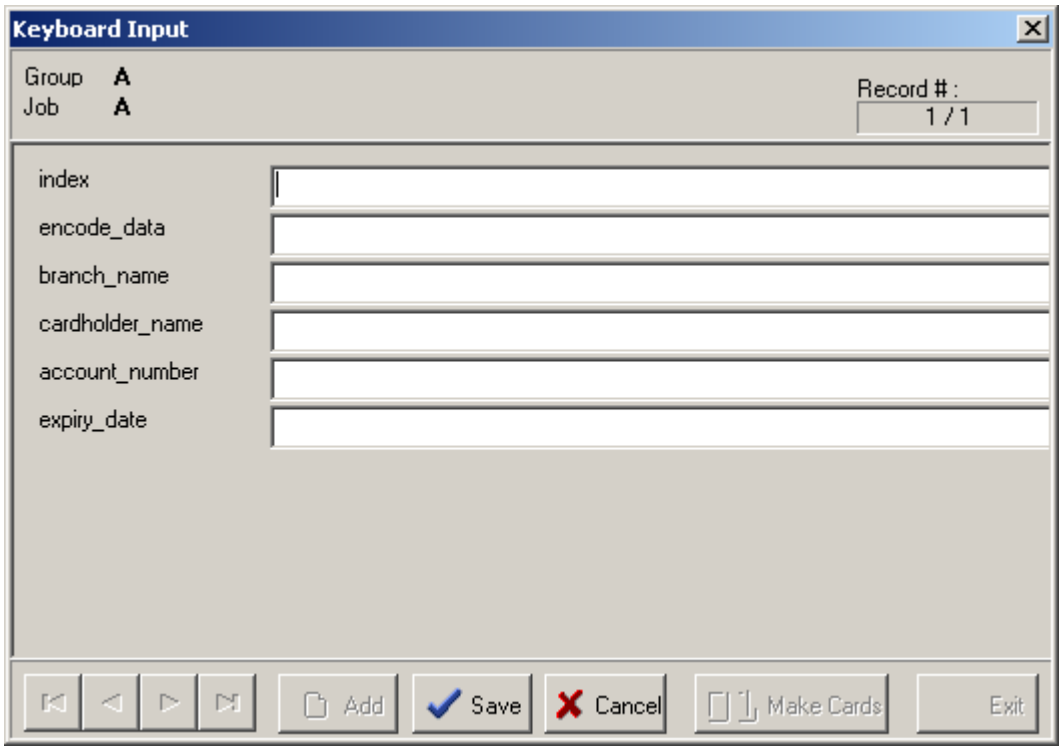


3.12- KEYBOARD INPUT

Select any item in the Keyboard Input (in Data Menu) window for information.



- Uses this window to create manually a Group, Job.
- Select a Job Setup



Production can start as soon as the following conditions have been met:

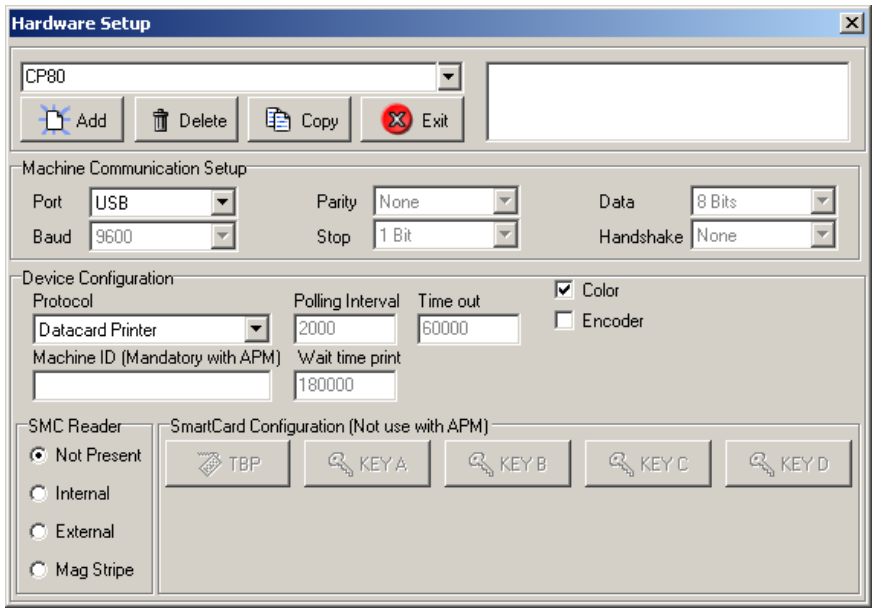
- Enter data for each record (keyboard input replaces data from any input file)

4 Samples of setups

4.1- DATACARD CP PLUS PRINTER

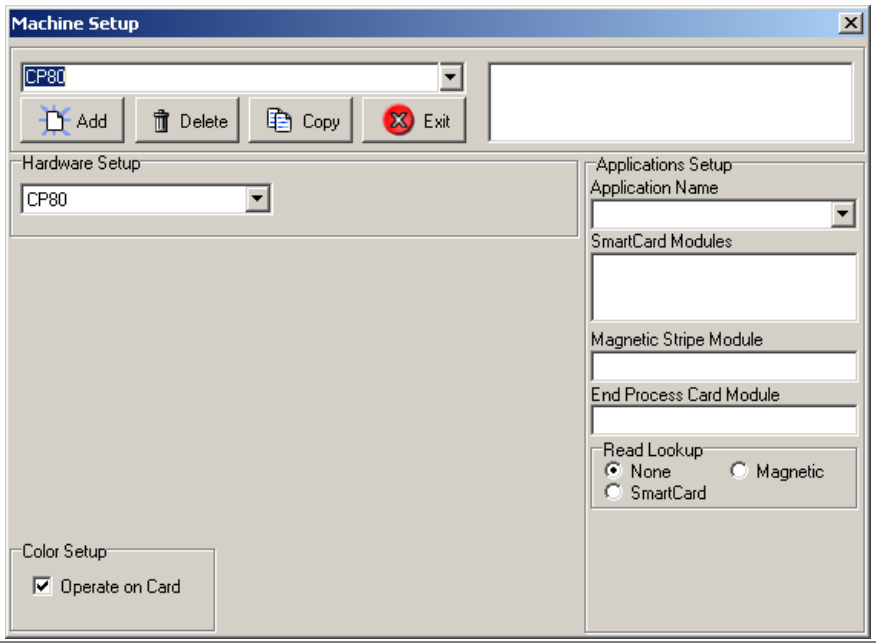
In order to use CP Plus printer with CDI you need to rename the printer to 'Datacard Printer' in Microsoft Windows.

4.1.1- Hardware Setup for CP Plus Printer

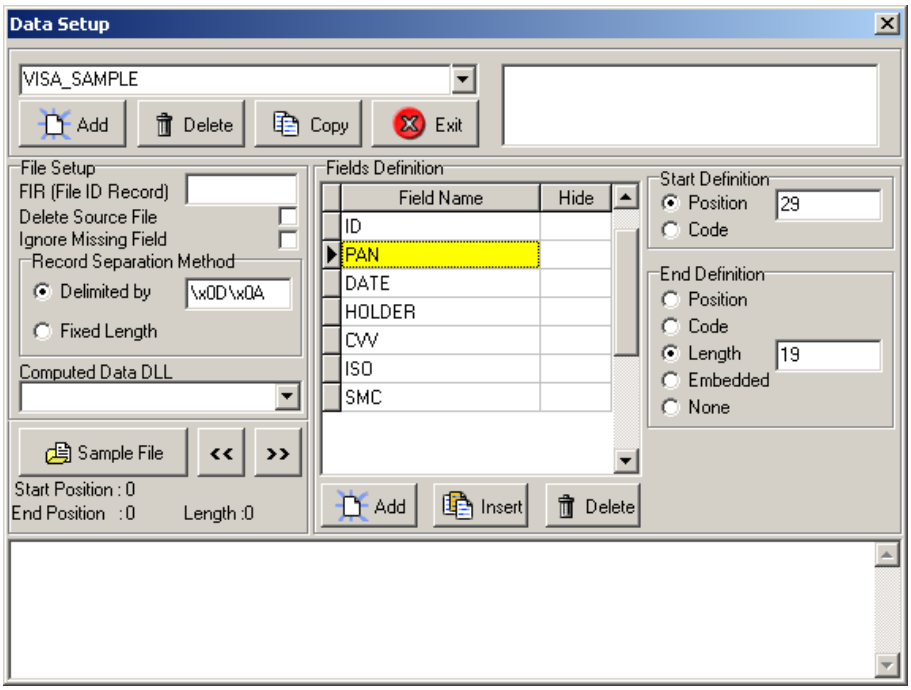


In this sample, we use a CP80 with color/monochrome ribbon but without encoder and SMC reader.

4.1.2- Machine Setup for CP Plus Printer

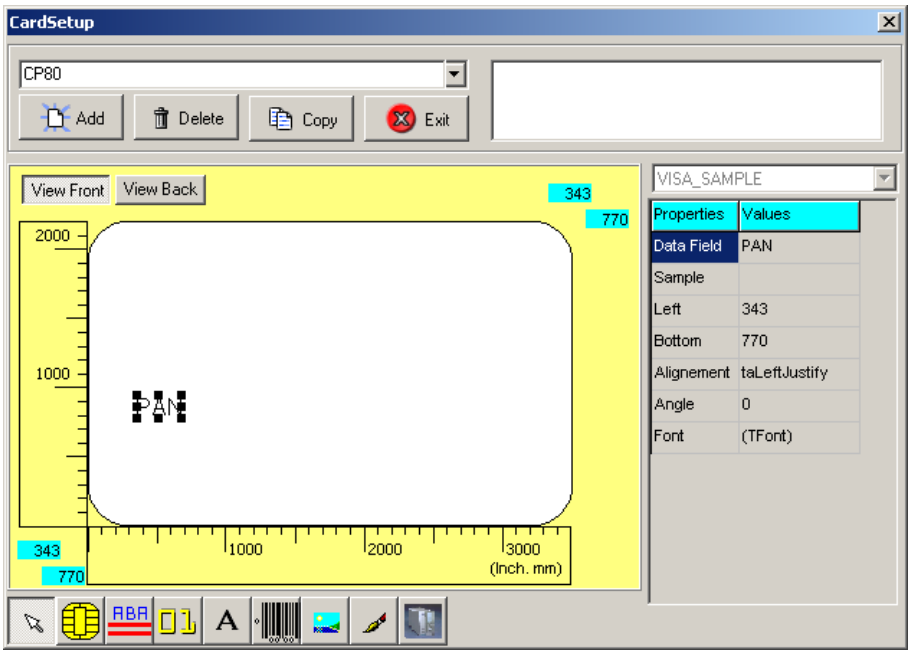


4.1.3- Data Setup



Data setup is not linked directly to a kind of printer. You can use the same Data Setup for several productions using different kind of printers.

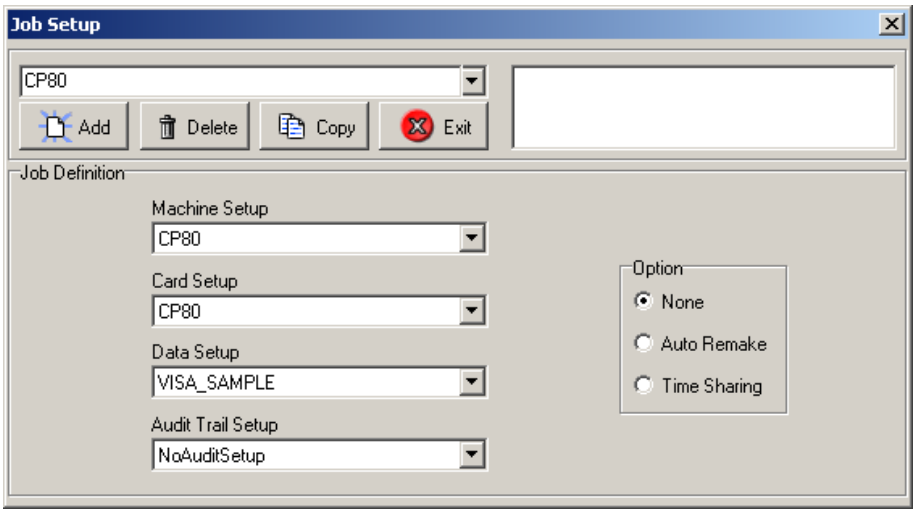
4.1.4- Card Setup for CP Plus Printer



In this sample, we just print the PAN on the front of the card.

As our CP Printer uses color/monochrome ribbon to print the card, we defined a 'Color Text' field linked to the Data Field 'PAN' (coming from the 'VISA_SAMPLE' data setup).

4.1.5- Job Setup for CP Plus Printer

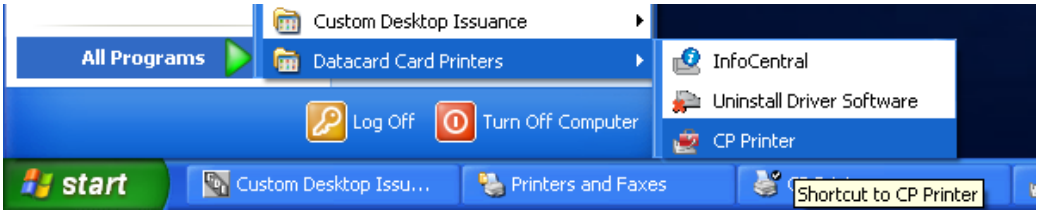


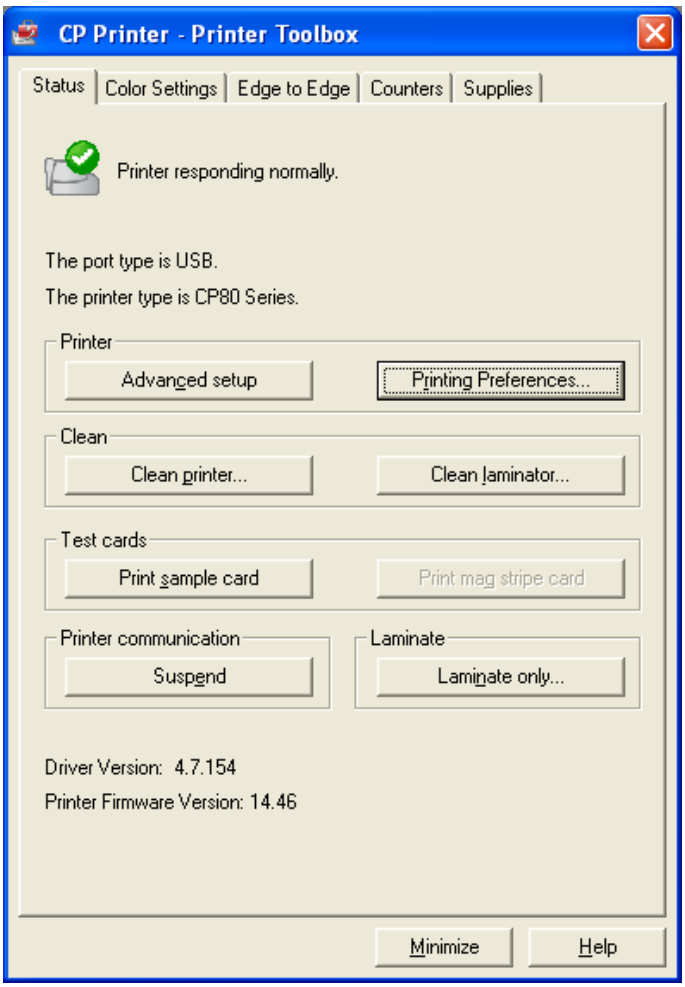
Here is the Job Setup using the different CP setups that we created.

4.1.6- Printing Preferences for CP Plus Printer

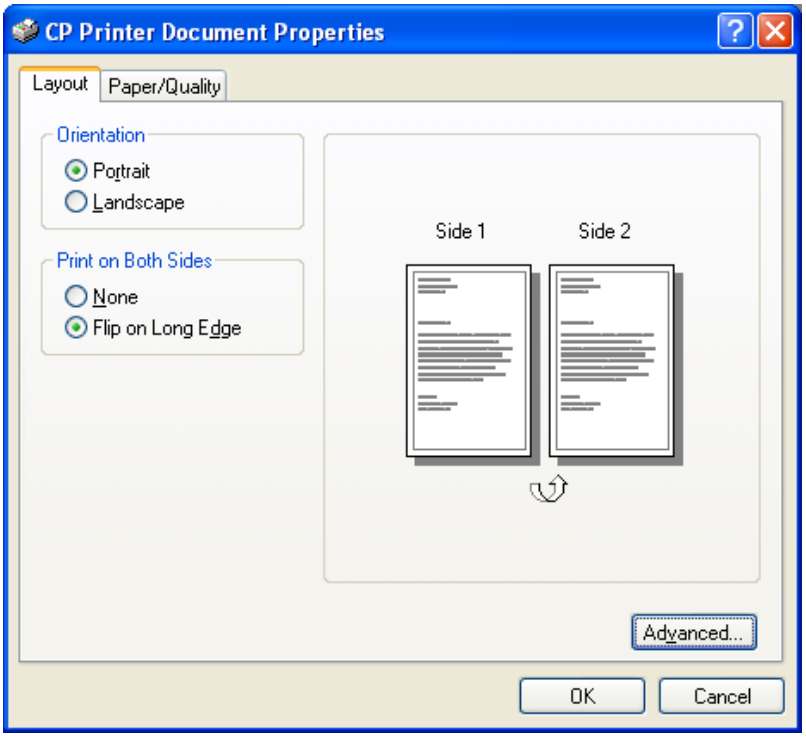
The choice of hologram overlay (laminator modules 1 and 2) is not configured in CDI, but in the Printing Preferences.

Example for Windows XP: Open the following menu Start / Datacard Card Printers / CP Printer

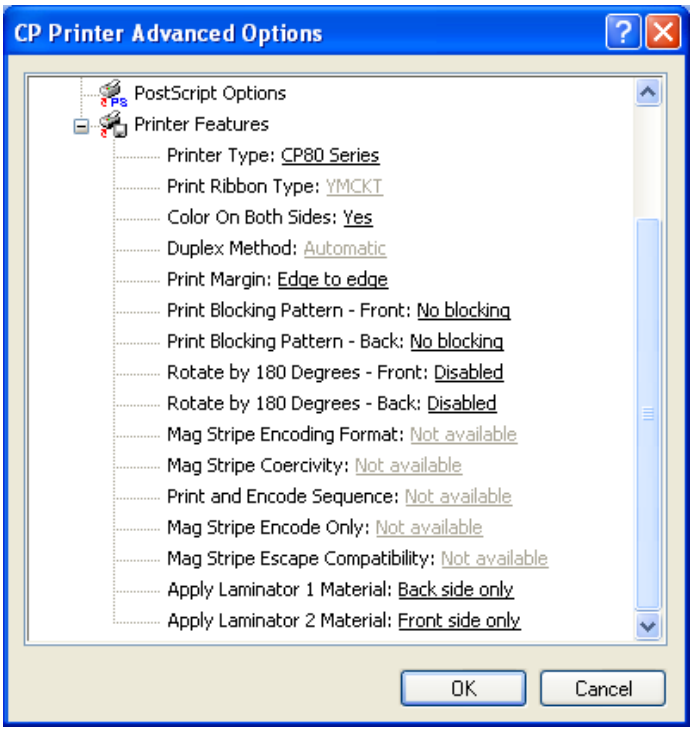




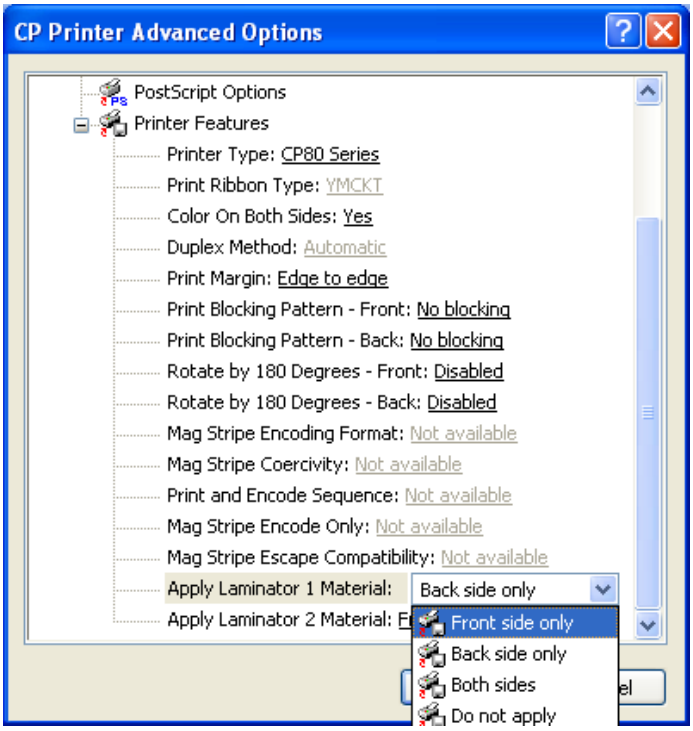
Here is the CP Printer Toolbox.
Click on “Printing Preferences…” button.



Click on “Advanced…” button.

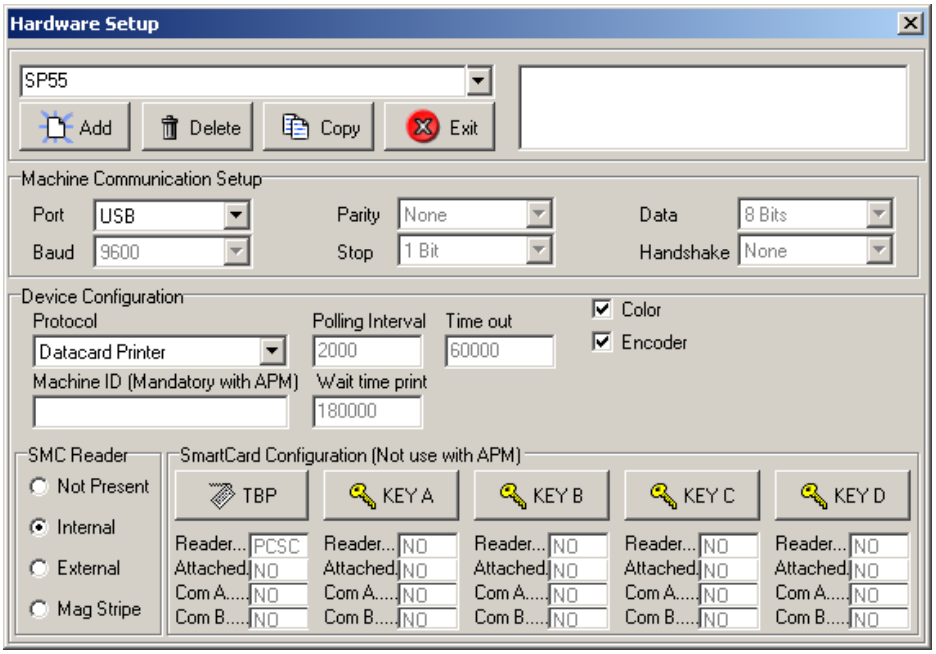

CP Printer Advanced Options
PostScript Options
Printer Features
Printer Type: CP80 Series
Print Ribbon Type: YMCKT
Color On Both Sides: Yes
Duplex Method: Automatic
Print Margin: Edge to edge
Print Blocking Pattern - Front: No blocking
Print Blocking Pattern - Back: No blocking
Rotate by 180 Degrees - Front: Disabled
Rotate by 180 Degrees - Back: Disabled
Mag Stripe Encoding Format: Not available
Mag Stripe Coercivity: Not available
Print and Encode Sequence: Not available
Mag Stripe Encode Only: Not available
Mag Stripe Escape Compatibility: Not available
Apply Laminator 1 Material: Back side only
Apply Laminator 2 Material: Front side only
OK
Cancel

Modify the “Apply Laminator 1 and 2 Material” as desired:


CP Printer Advanced Options
PostScript Options
Printer Features
Printer Type: CP80 Series
Print Ribbon Type: YMCKT
Color On Both Sides: Yes
Duplex Method: Automatic
Print Margin: Edge to edge
Print Blocking Pattern - Front: No blocking
Print Blocking Pattern - Back: No blocking
Rotate by 180 Degrees - Front: Disabled
Rotate by 180 Degrees - Back: Disabled
Mag Stripe Encoding Format: Not available
Mag Stripe Coercivity: Not available
Print and Encode Sequence: Not available
Mag Stripe Encode Only: Not available
Mag Stripe Escape Compatibility: Not available
Apply Laminator 1 Material: Back side only
Apply Laminator 2 Material:
Front side only
Back side only
Both sides
Do not apply

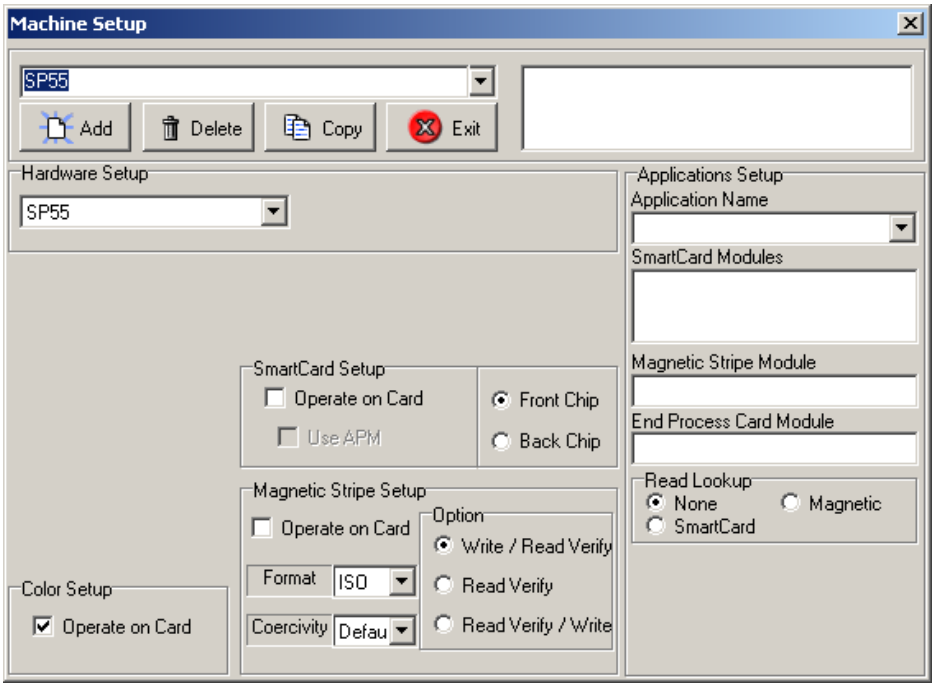
4.2- DATACARD SP PLUS PRINTER

4.2.1- Hardware Setup for SP Plus Printer



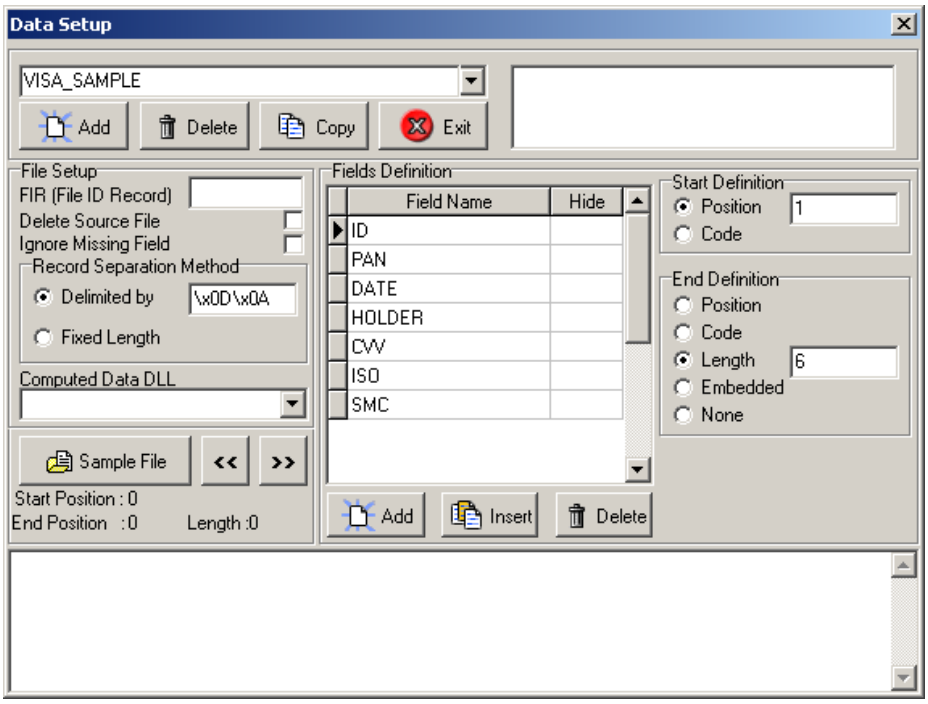
In this sample, we use a SP55 with color/monochrome ribbon, encoder and internal SMC reader.

4.2.2- Machine Setup for SP Plus Printer



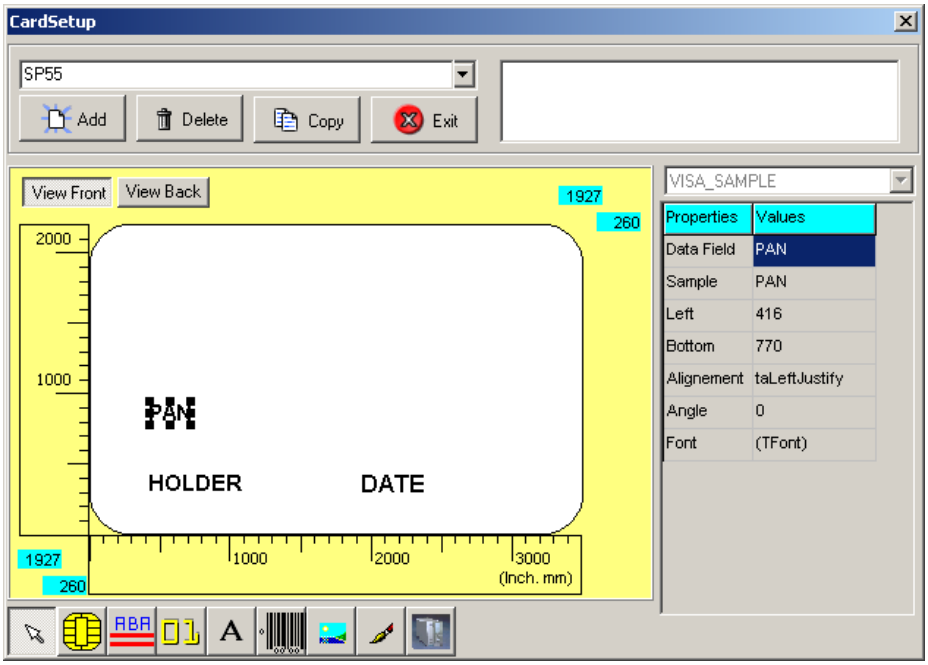
In this sample, we just setup color printing (color or monochrome).

4.2.3- Data Setup



Data setup is not linked directly to a kind of printer. You can use the same Data Setup for several productions using different kind of printers.

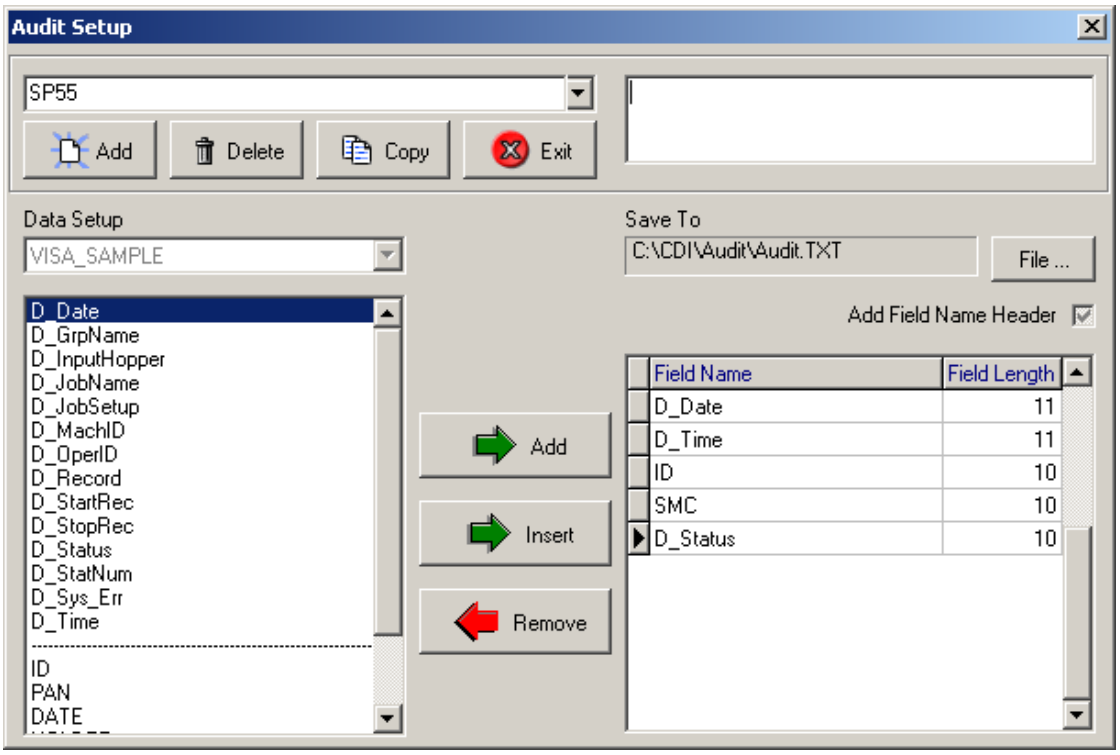
4.2.4- Card Setup for SP Plus Printer



In this sample, we print the PAN, the Holder Name and the Expiration Date on the front of the card.

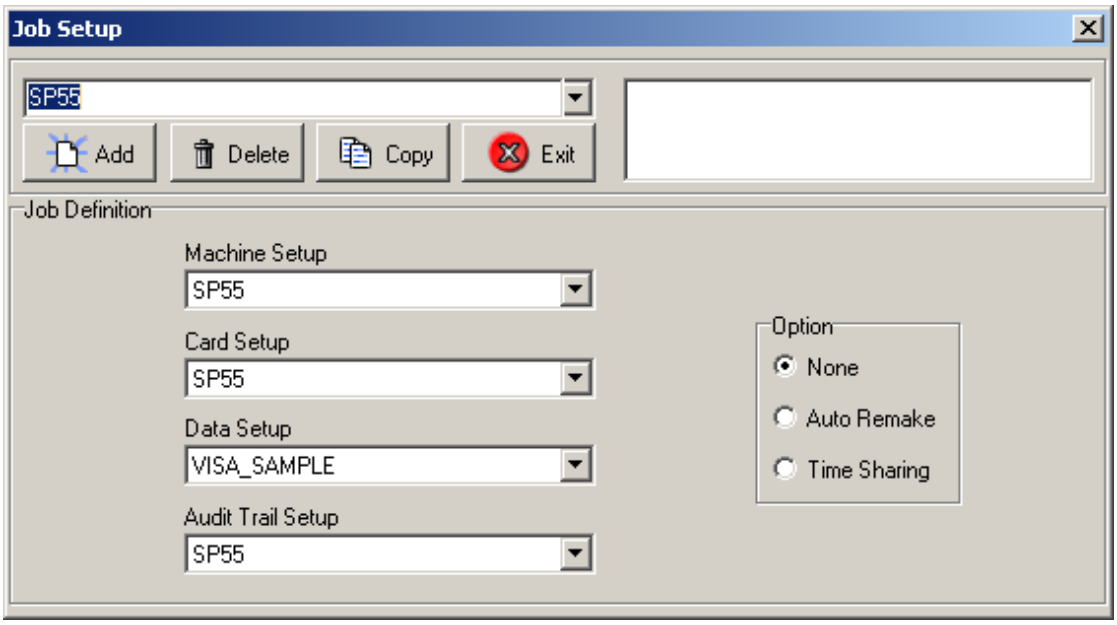
As our SP Printer uses color/monochrome ribbon to print the card, we defined ‘Color Text’ fields linked to the Data Fields ‘PAN’, ‘HOLDER’ and ‘DATE’ (coming from the ‘VISA_SAMPLE’ data setup).

4.2.5- Audit Setup



Here is a sample of Audit Setup for SP55.

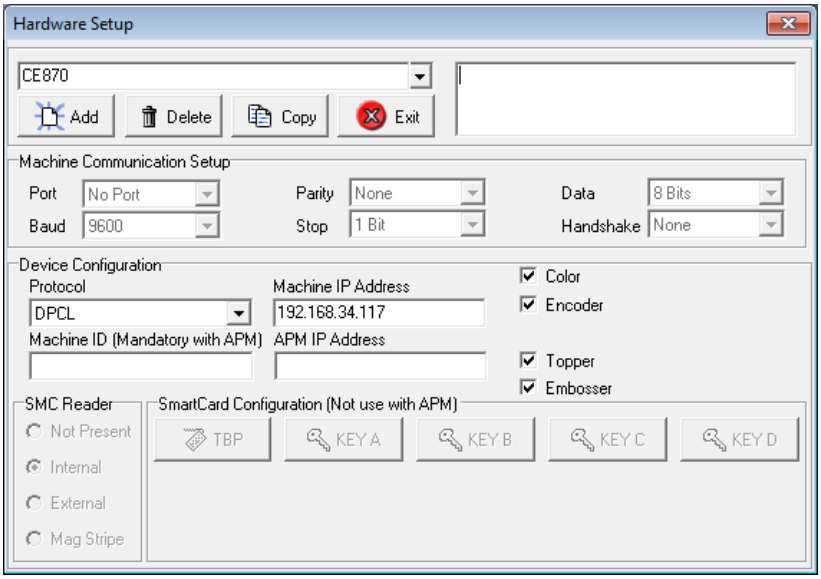
4.2.6- Job Setup for SP Plus Printer



Here is the Job Setup using the different SP setups that we created.

4.3- DATACARD CE870 PRINTER

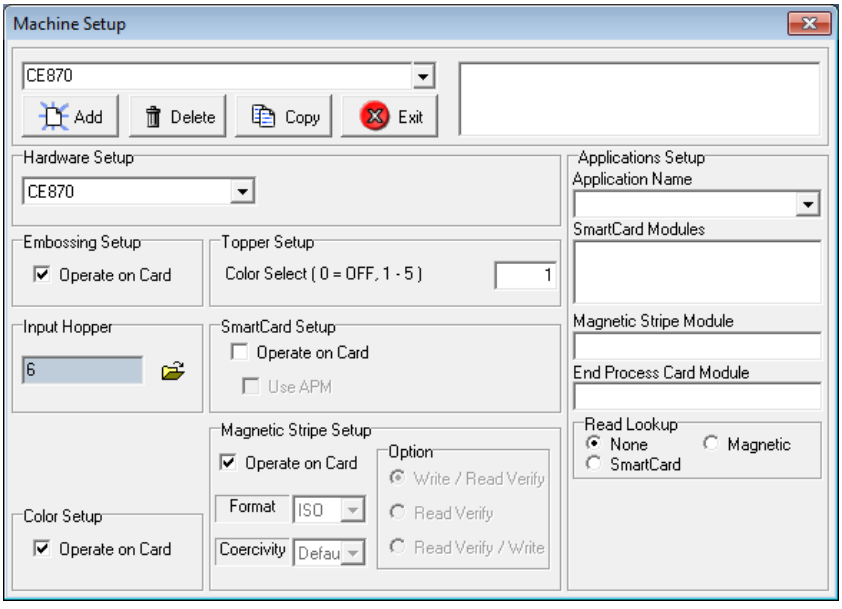
4.3.1- Hardware Setup for CE870 Printer



In this sample, we use a CE870 with color/monochrome ribbon, encoder, Topper and Embosser. We didn't setup connection to SCS/APM.

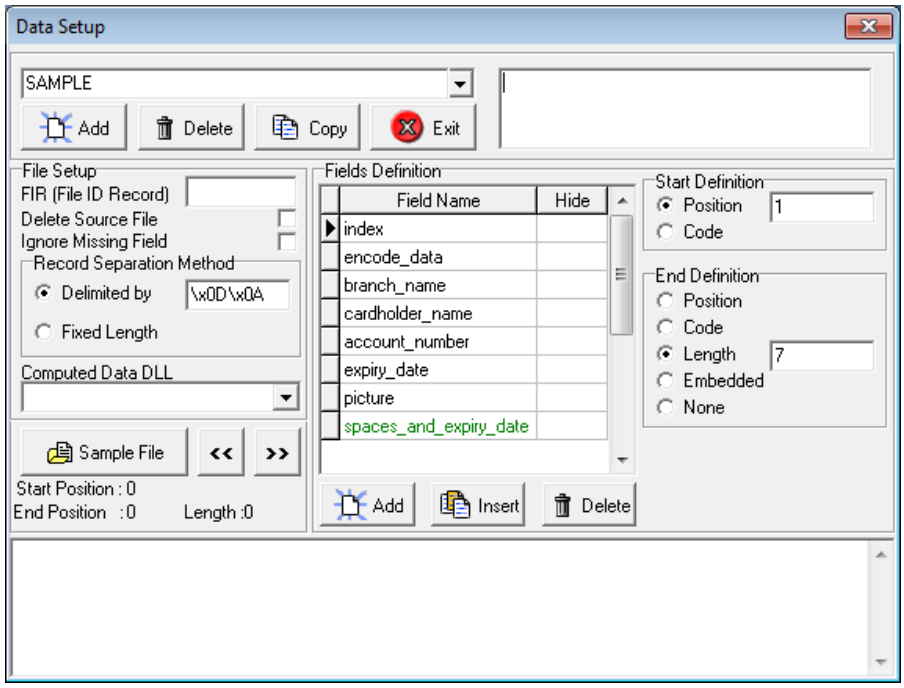
You can find IP address of the printer on the CE870 front screen.

4.3.2- Machine Setup for CE870 Printer



In this sample, we setup Topper, Embossing, Magstripe and Input Hopper.

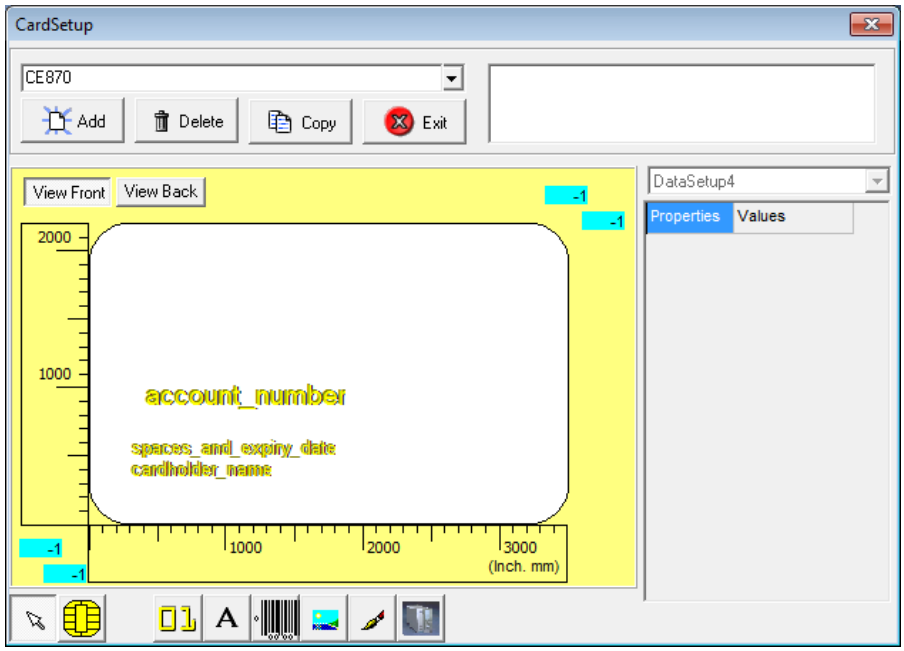
4.3.3- Data Setup



Data setup is not linked directly to a kind of printer. You can use the same Data Setup for several productions using different kind of printers.

4.3.4- Card Setup for CE870 Printer

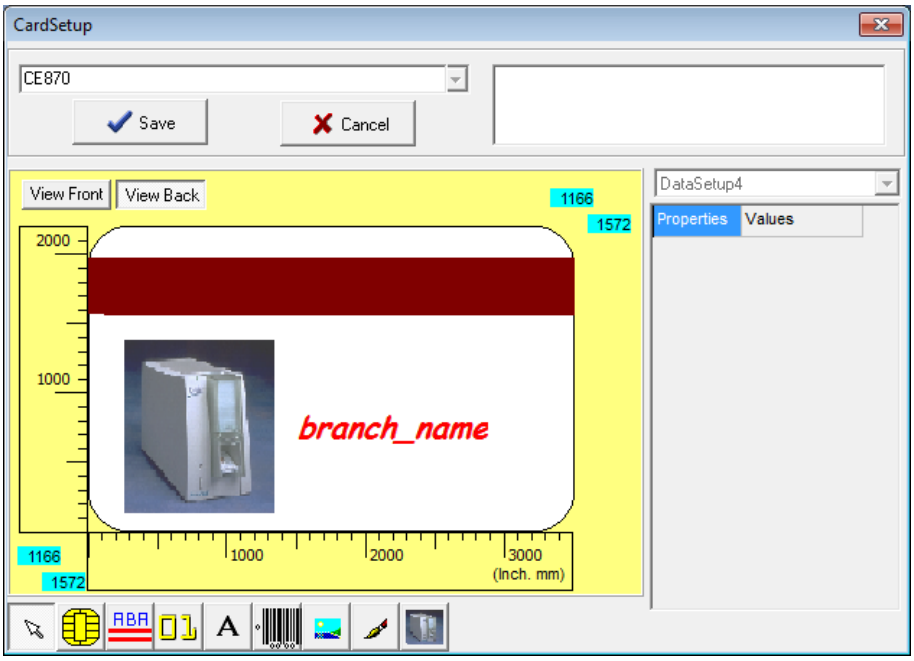
Front View:



In this sample, we emboss the account number, the Card Holder Name and the Expiration Date on the front of the card.

We defined three ‘Emboss’ objects linked to the Data Fields ‘account_number’, ‘cardholder_name’ and ‘space_and_expiry_date’ (coming from the ‘SAMPLE’ data setup).

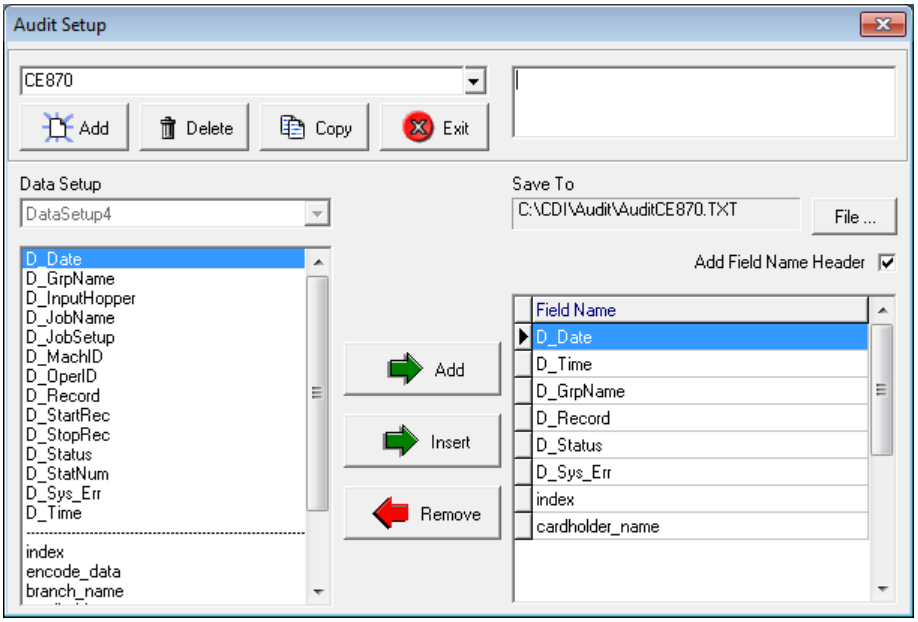
Back View:



On the back view, we defined for this sample to encode Magstripe and to print an image and the branch name.

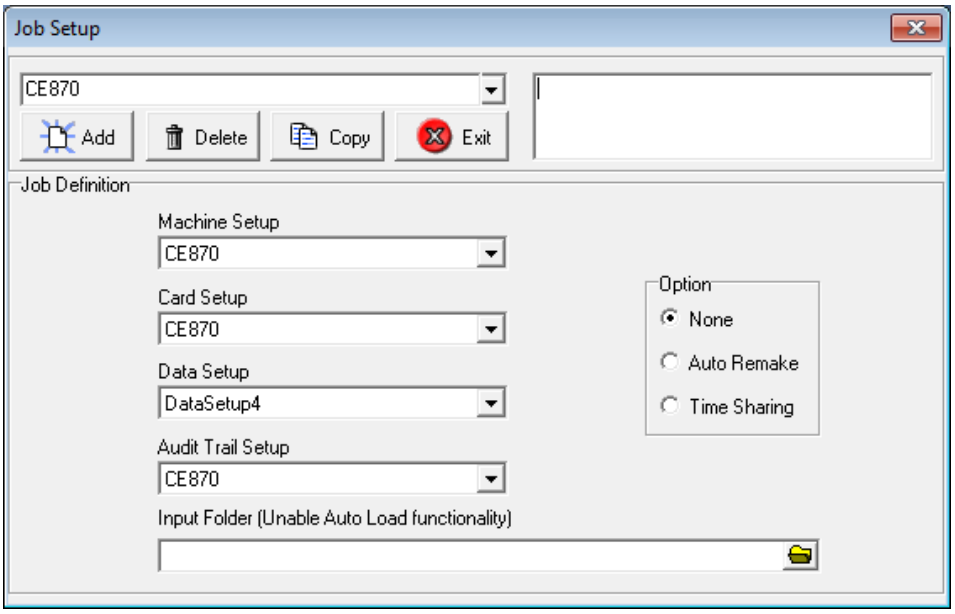
We defined 'Stripe', 'Picture' and 'Color Text' objects linked to the corresponding fields of the Data Fields (coming from the 'SAMPLE' data setup).

4.3.5- Audit Setup



Here is a sample of Audit Setup for CE870.

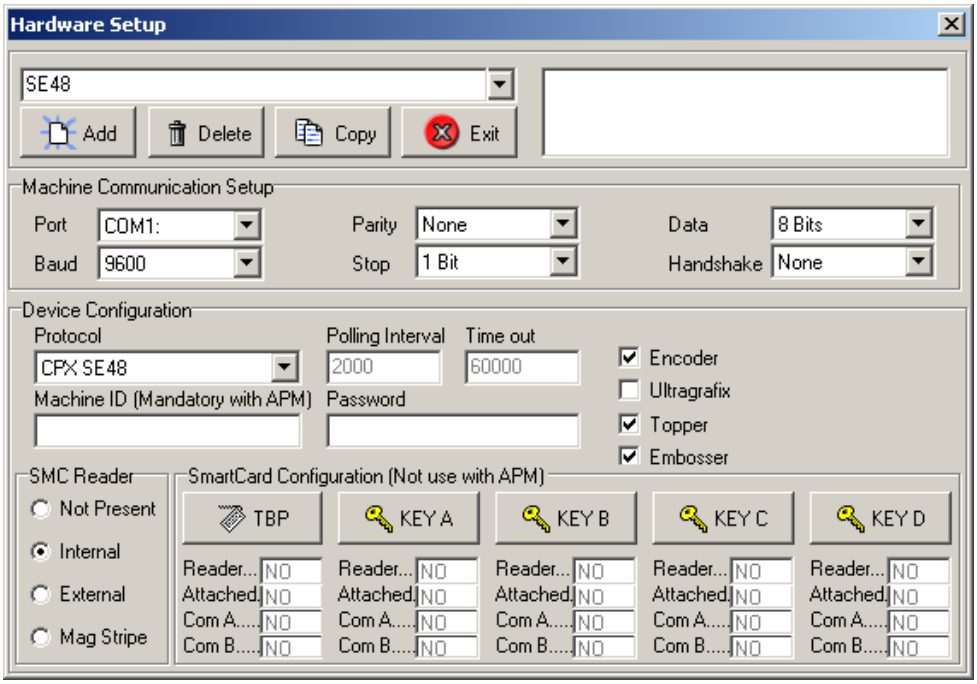
4.3.6- Job Setup for CE870 Printer



Here is the Job Setup using the different CE870 setups that we created.

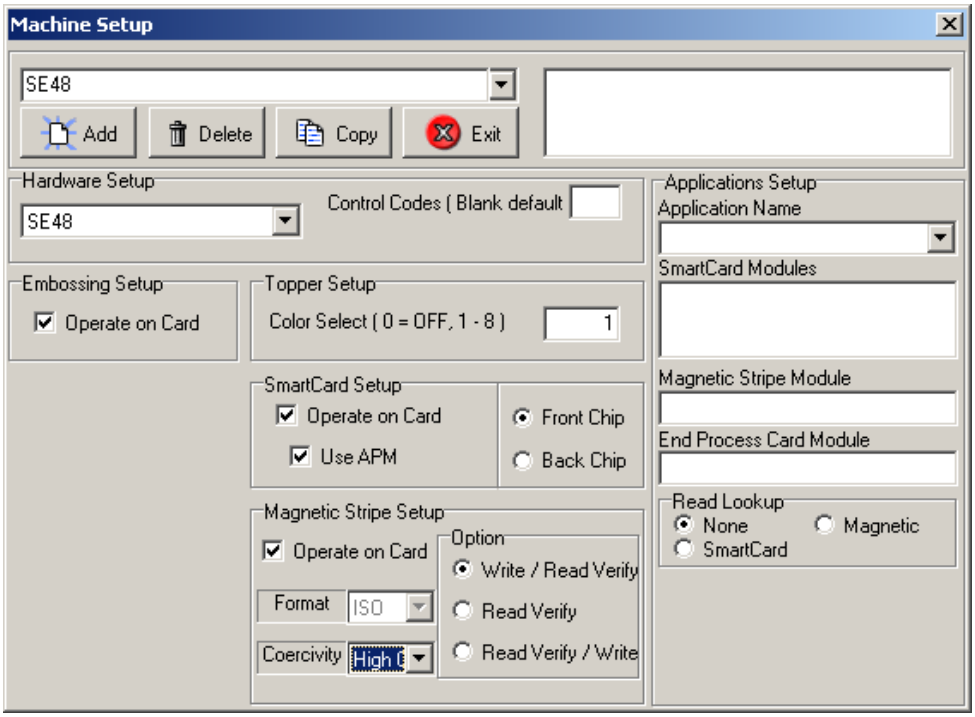
4.4- DATACARD SE48 PRINTER

4.4.1- Hardware Setup for SE48 Printer



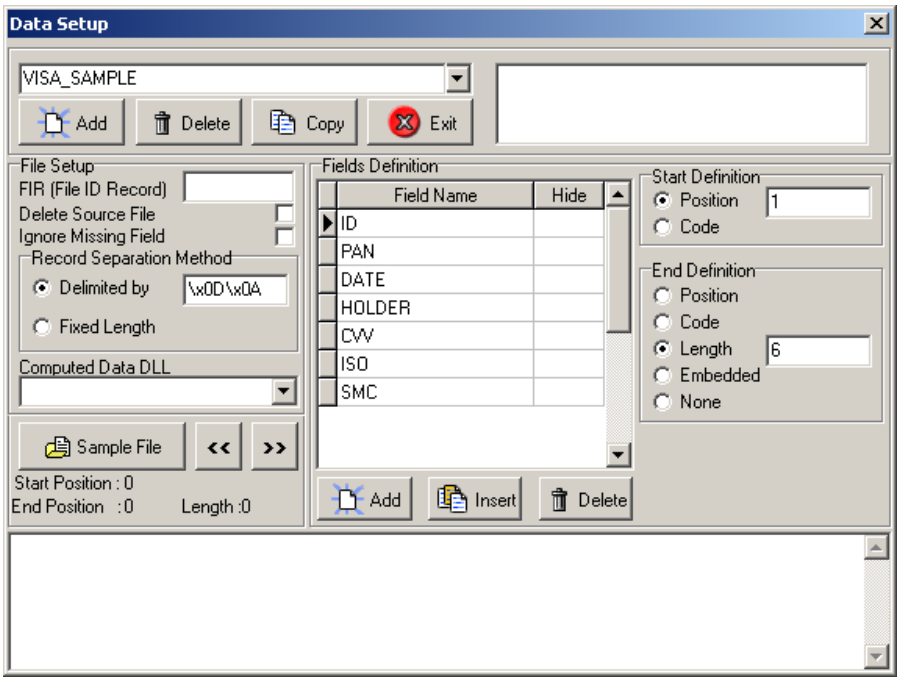
In this sample, we use a SE48 with Encoder (Magstripe), Embosser, Topper and SMC reader.

4.4.2- Machine Setup for SE48 Printer



In this sample, we use Encoder (Magstripe), Embosser, Topper and SmartCard.

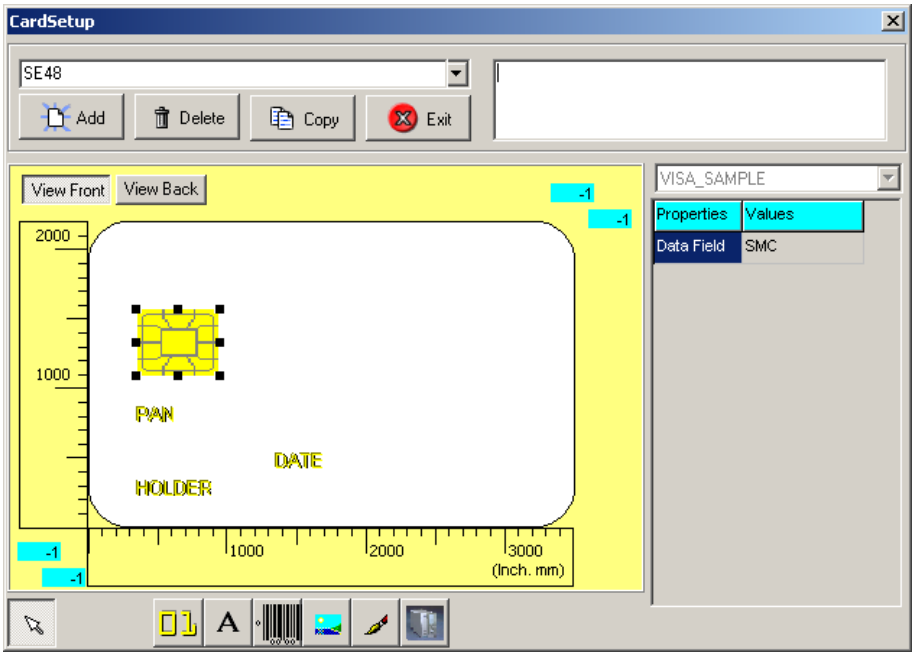
4.4.3- Data Setup



Data setup is not linked directly to a kind of printer. You can use the same Data Setup for several productions using different kind of printers.

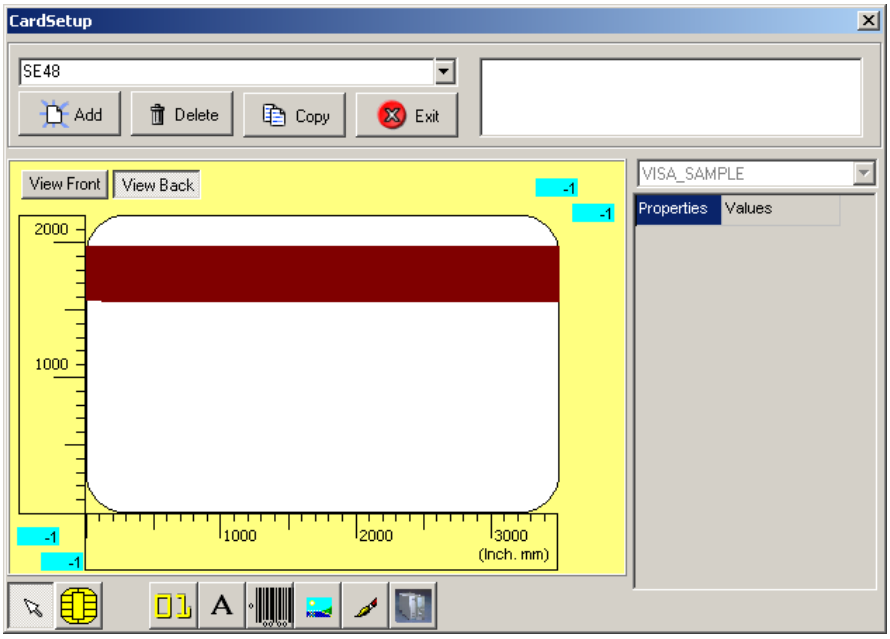
4.4.4- Card Setup for SE48 Printer

4.4.4.1- View Front



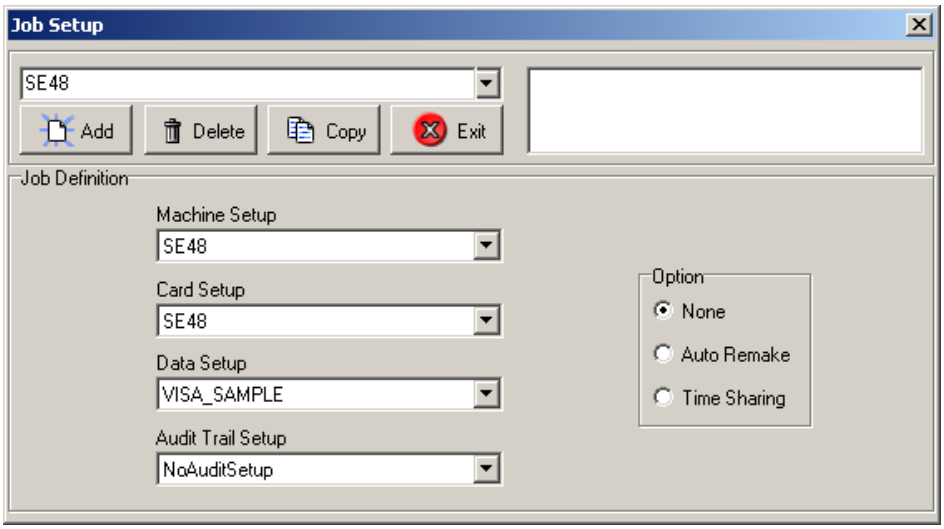
In this sample, we emboss the PAN, the Holder Name and the Expiration Date on the front of the card. We also personalize the chip of the card by using data imported in the SMC Data Field. PAN, DATE and HOLDER fields will be embossed by using font '10_cpi'.

4.4.4.2- View Back



In this sample, we encode the Magstripe on the back of the card.

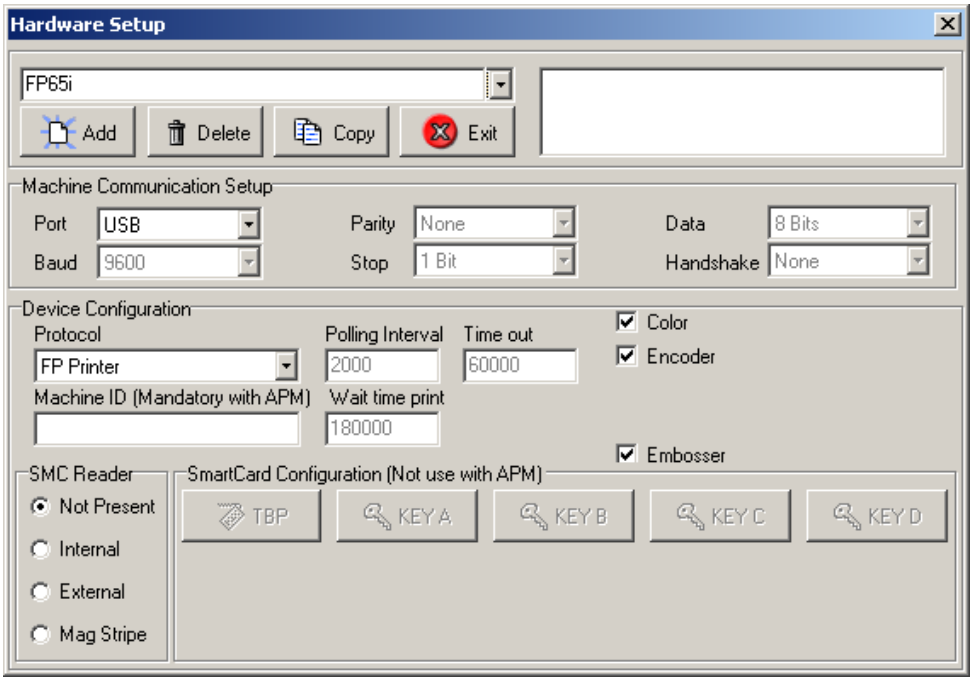
4.4.5- Job Setup for SE48 Printer



Here is the Job Setup using the different SE48 setups that we created.

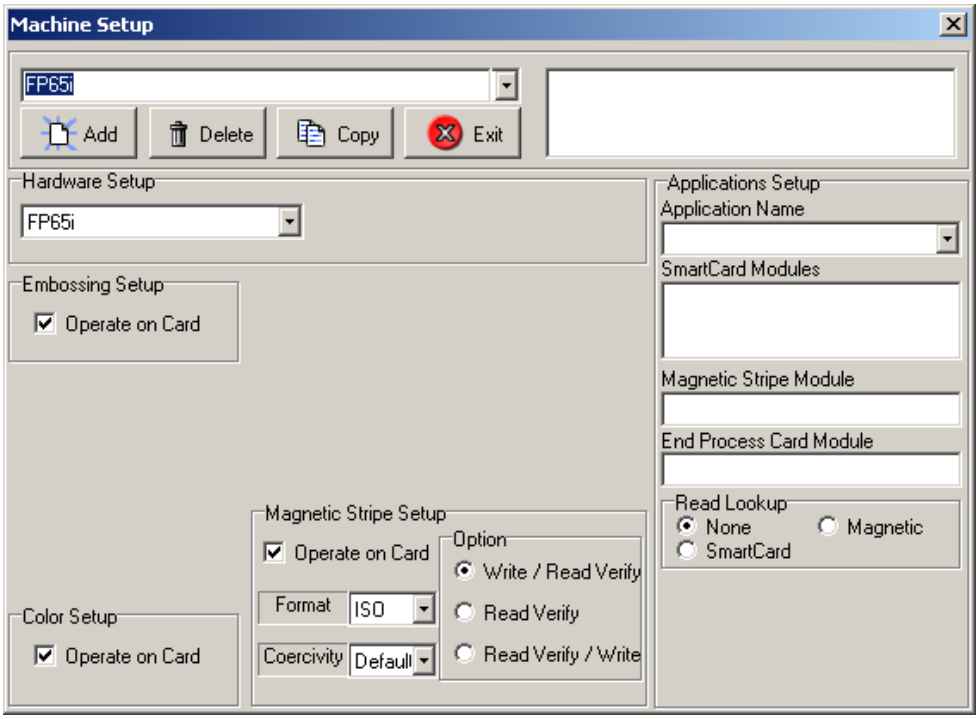
4.5- DATACARD FP65I PRINTER

4.5.1- Hardware Setup for FP65i Printer



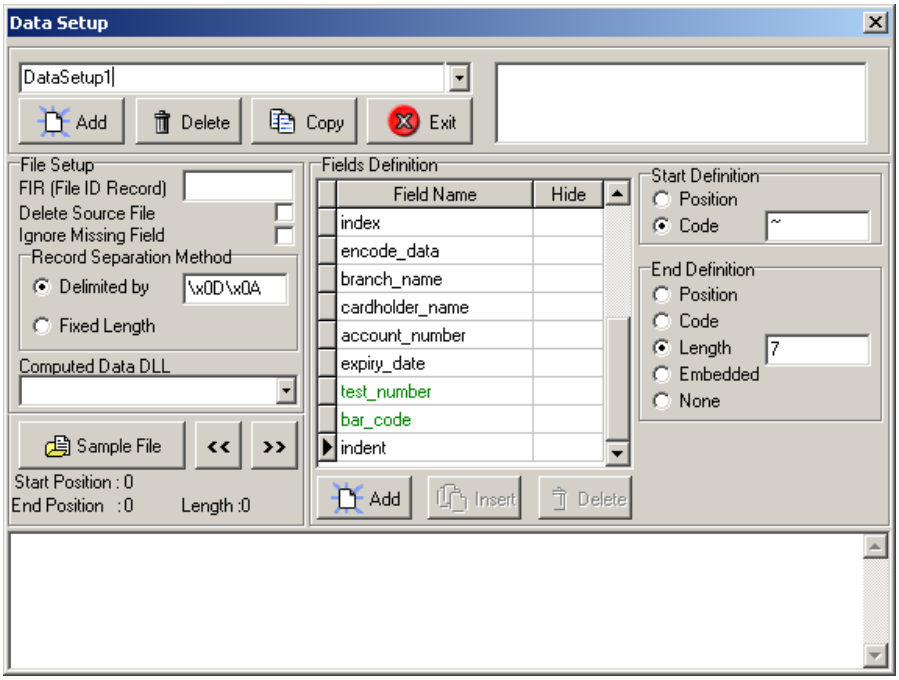
In this sample, we use an FP65i with color/monochrome ribbon, Encoder (Magstripe) and Embosser (Indent).

4.5.2- Machine Setup for FP65i Printer



In this sample, we use color printing (color or monochrome), Encoder (Magstripe) and Embosser (Indent).

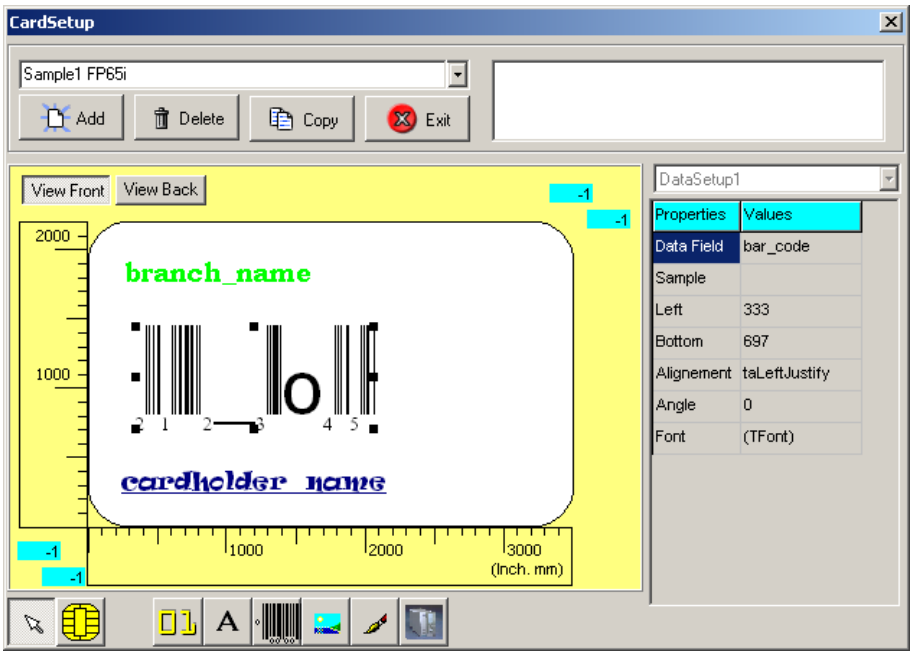
4.5.3- Data Setup



Data setup is not linked directly to a kind of printer. You can use the same Data Setup for several productions using different kind of printers.

4.5.4- Card Setup for FP65i Printer

4.5.4.1- View Front

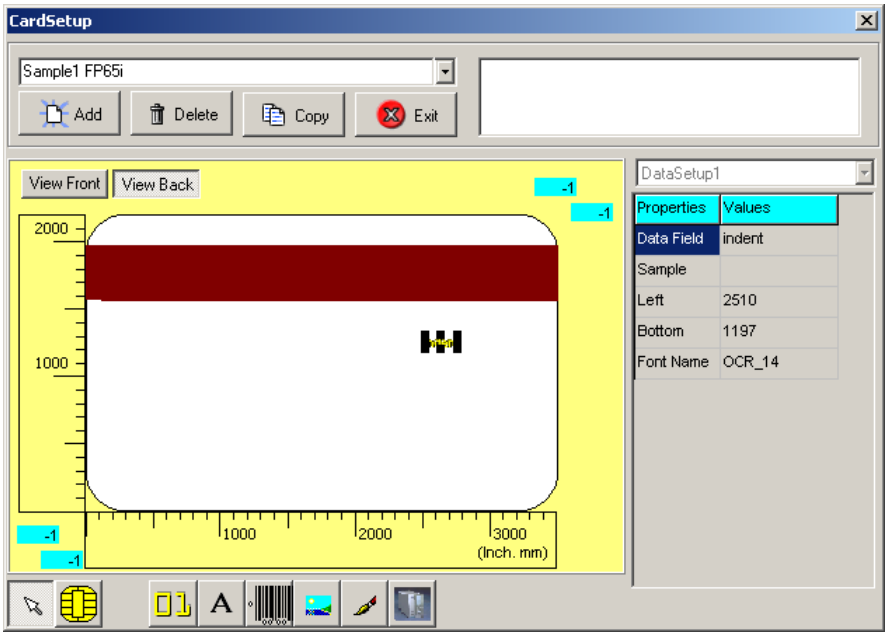


In this sample, we print the branch name, the cardholder name and the bar code on the front of the card.

As our FP Printer uses color/monochrome ribbon to print the card, we defined 'Color Text' fields linked to the Data Fields 'branch_name', 'cardholder_name' and 'bar_code' (coming from the 'DataSetup1' data setup).

Bar code field will be printed by using barcode font 'EAN-13'.

4.5.4.2- View Back

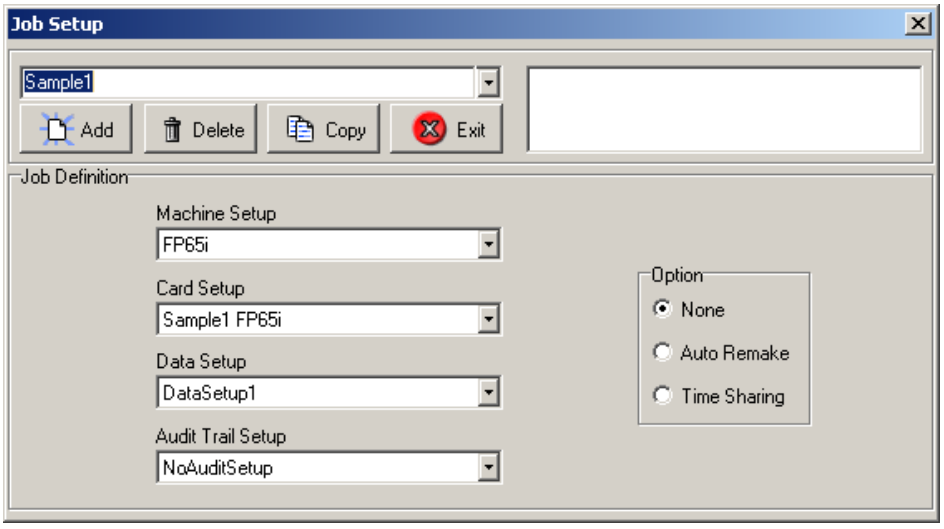


In this sample, we encode the Magstripe and the indent on the back of the card.

As our FP Printer uses rear indent printing module, we defined an 'Emboss' field linked to the Data Field 'indent' (coming from the 'DataSetup1' data setup).

With this equipment, indent fields must be embossed by using font 'OCR_14' solely.

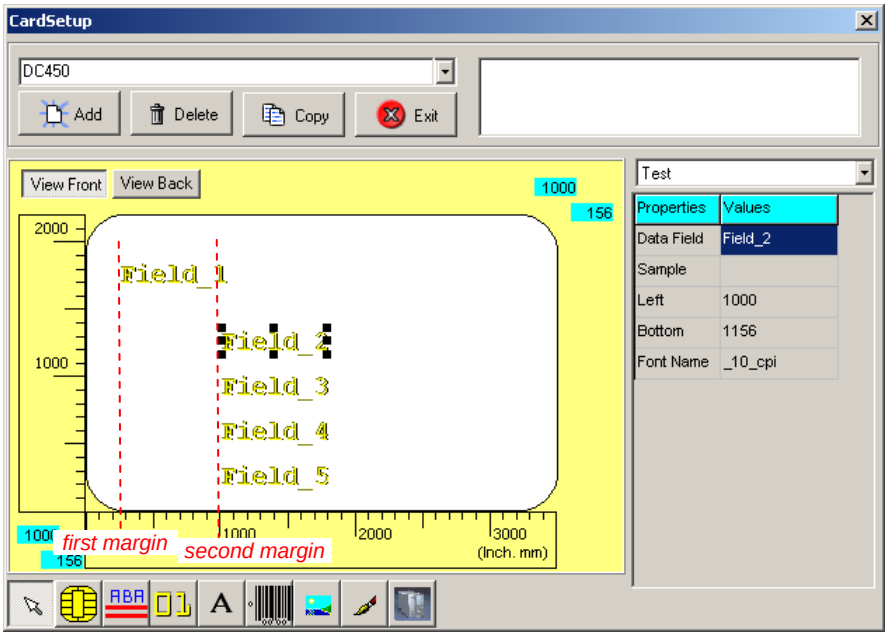
4.5.5- Job Setup for FP65i Printer



Here is the Job Setup using the different FP65i setups that we created.

4.6- DATACARD DC450 PRINTER

4.6.1- Card Setup for DC450 Printer



In this sample, we emboss Field_1 to Field_5 on the front of the card.

DC450 is a dual margin printer, which implies for CDI Card Setup:

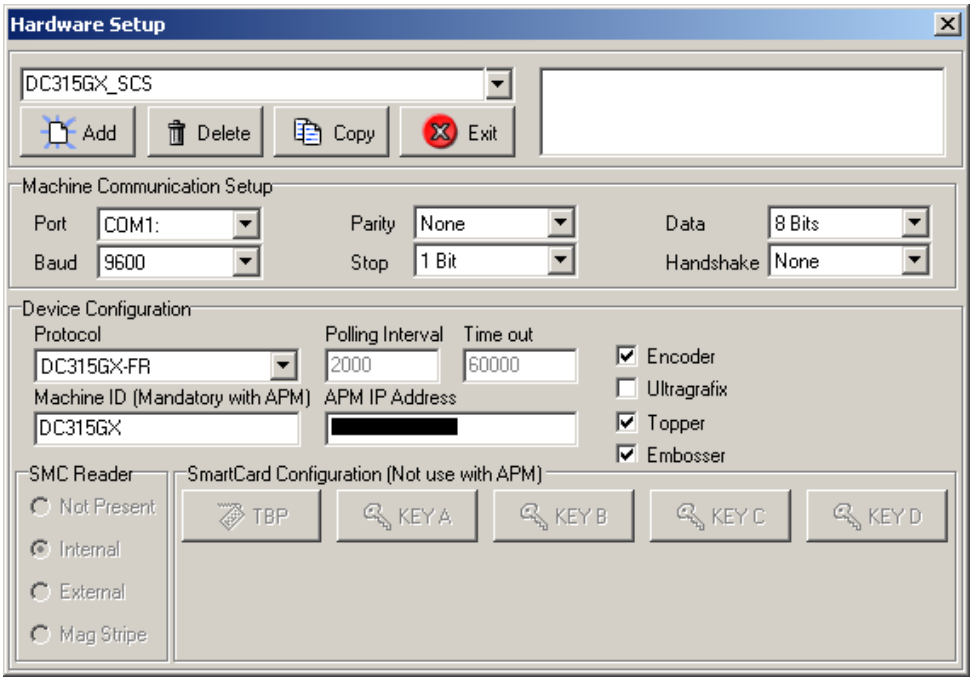
- The left position of first created emboss field defines the first margin.
- The left position of second created emboss field defines the second margin.
- All the other emboss fields follow the second margin (1000 in this sample), whatever their left position in the Card Setup is. (If you really want to position the fields farther on the right, you have to pad them with spaces, e.g. using composite fields in the Data Setup.)

Same rule applies for indent fields on the back of the card.

(This means for example that if a back indent field is created before the front embossing fields, then the back indent field will define the first margin.)

4.7- DATACARD DC315GX PRINTER

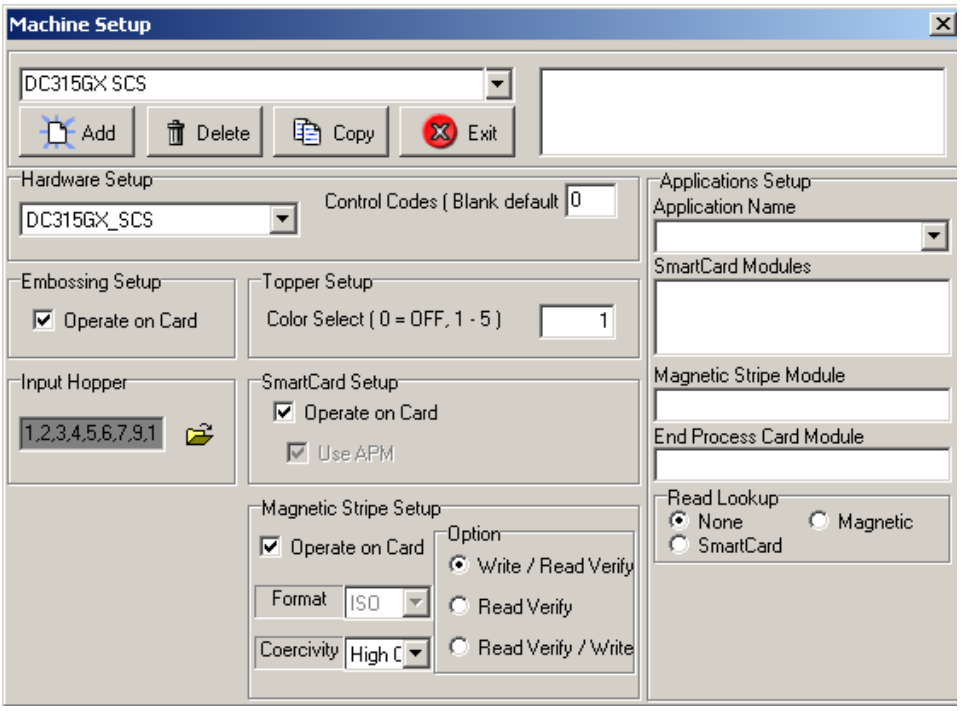
4.7.1- Hardware Setup for DC315GX Printer



In this sample, we use a DC315GX with Encoder (Magstripe), Embosser, Topper and SMC reader with SCS/APM (in this case SCS/APM IP Address must be entered).

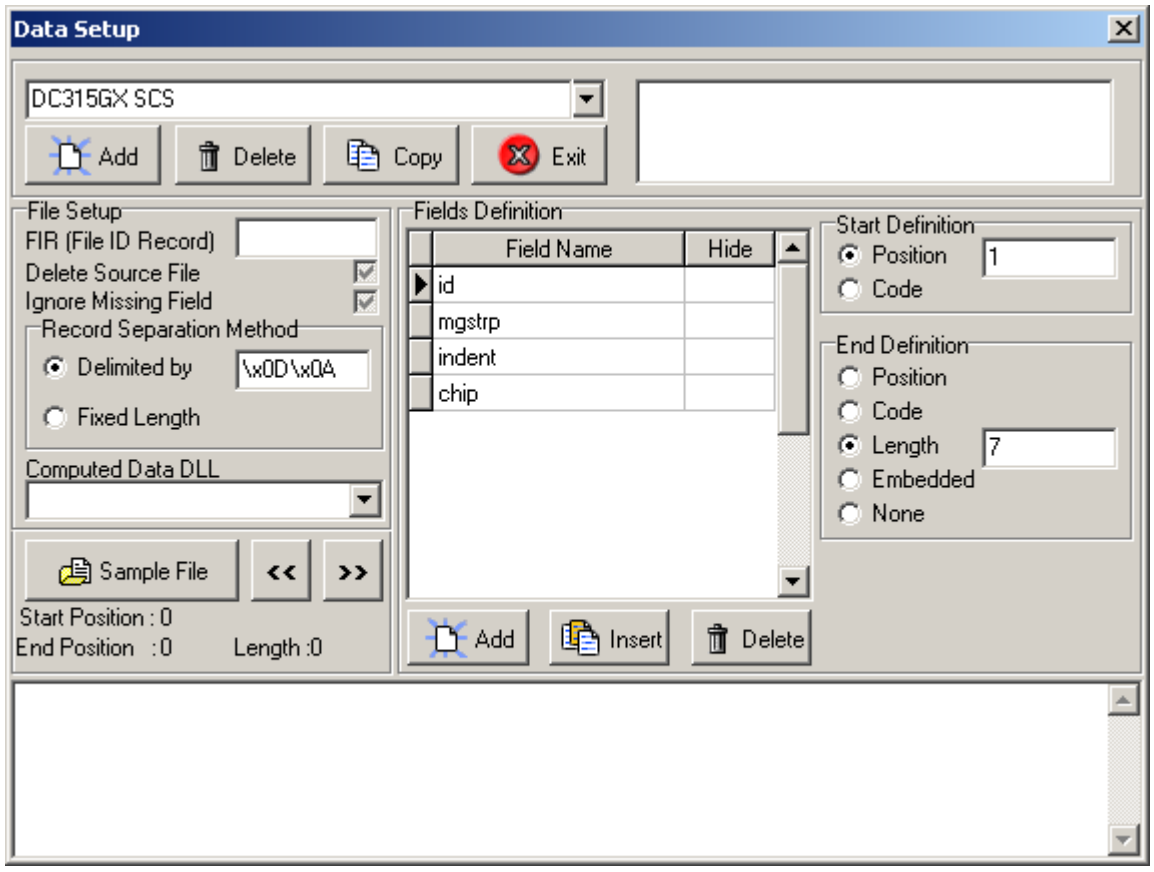
NB: To use CDI with SCS/APM for this printer, go to section 6.1- “Special for DC315GX” (page 76).

4.7.2- Machine setup for DC315GX Printer



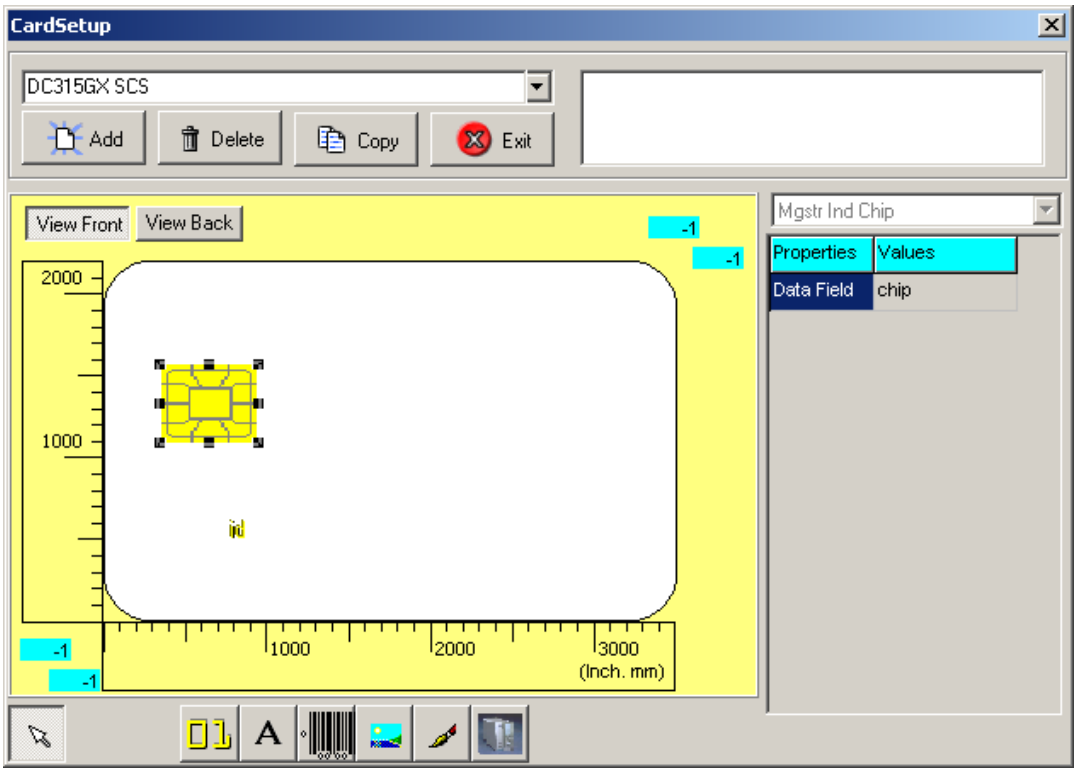
In this sample, we use Encoder (Magstripe), Embosser, Topper and SmartCard.

4.7.3- Data Setup



Data setup is not linked directly to a kind of printer. You can use the same Data Setup for several productions using different kind of printers.

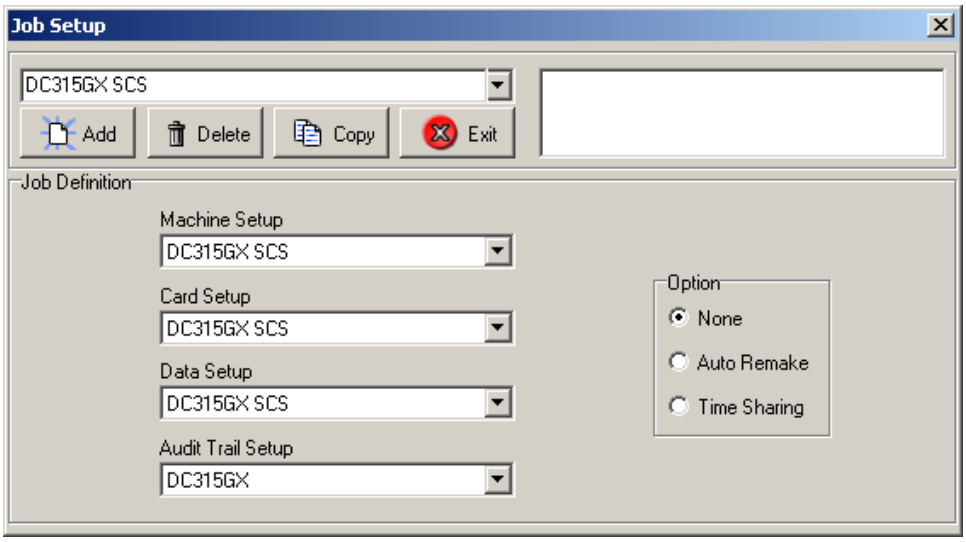
4.7.4- Card Setup for DC315GX Printer



In this sample, we emboss the ‘id’ field on the front of the card. We also personalize the chip of the card by using data imported in the ‘chip’ Data Field.

This screenshot only shows the front of the card; the Magstripe is encoded on the back of the card. The indent is embossed on the back too.

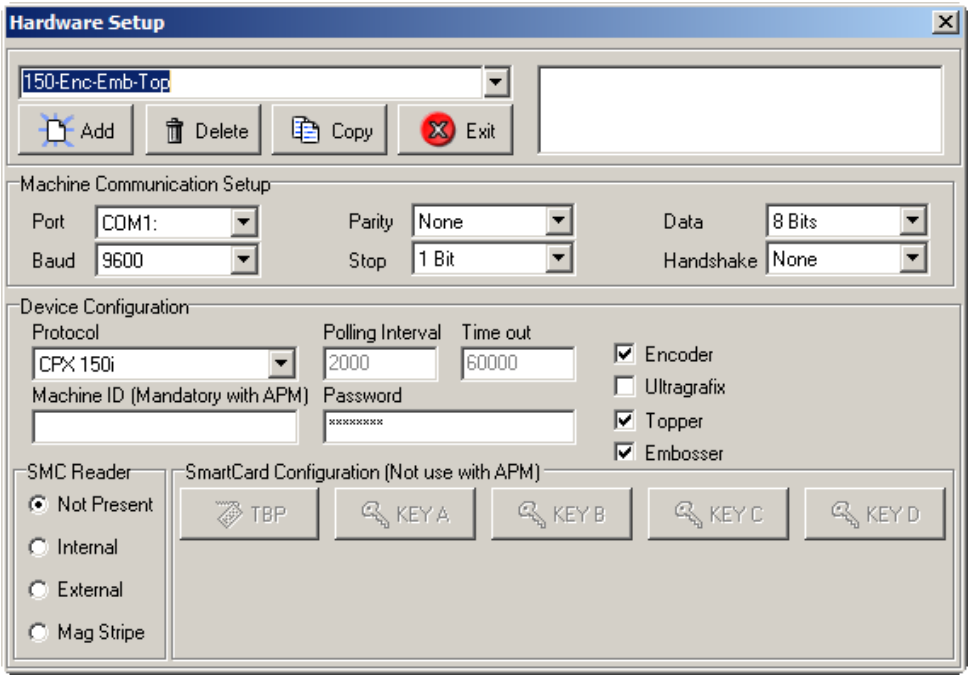
4.7.5- Job Setup for DC315GX Printer



Here is the Job Setup using the different DC315GX setups that we created.

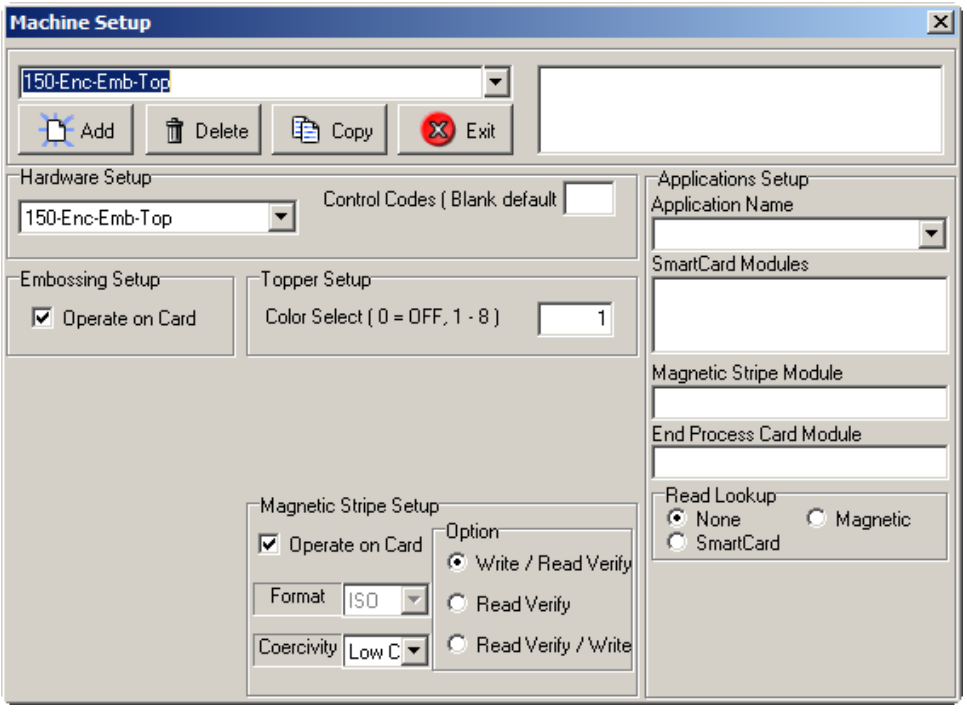
4.8- DATACARD 150I PRINTER

4.8.1- Hardware Setup for 150i Printer



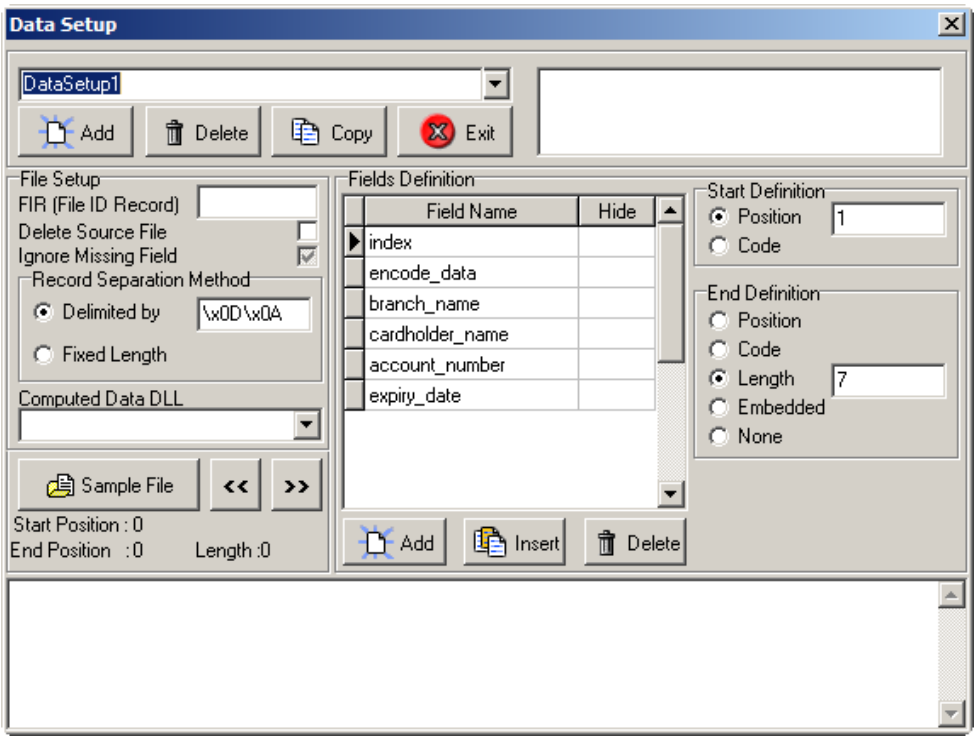
In this sample, we use a 150i with Encoder (Magstripe), Embosser and Topper.

4.8.2- Machine Setup for 150i Printer



In this sample, we use Encoder (Magstripe), Embosser and Topper.

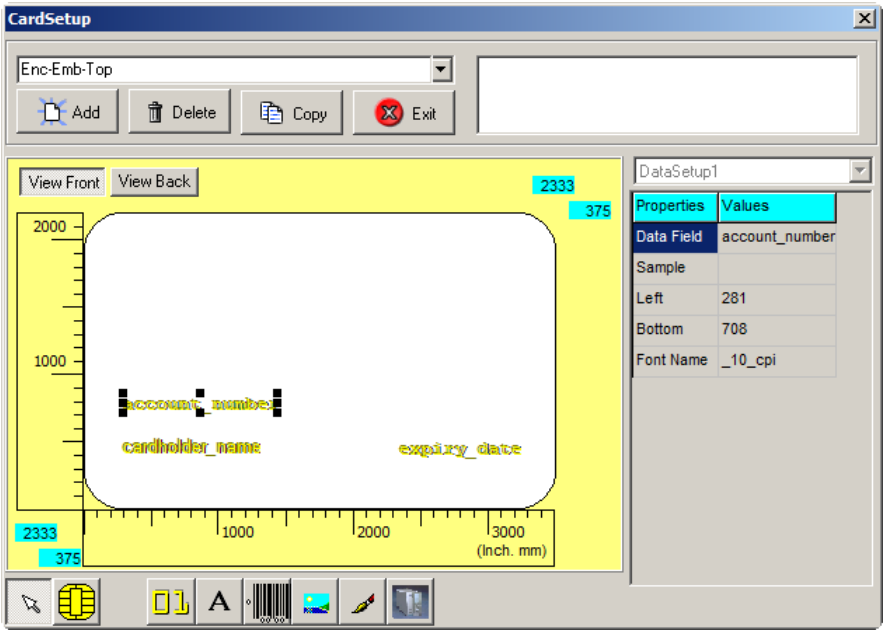
4.8.3- Data Setup



Data setup is not linked directly to a kind of printer. You can use the same Data Setup for several productions using different kind of printers.

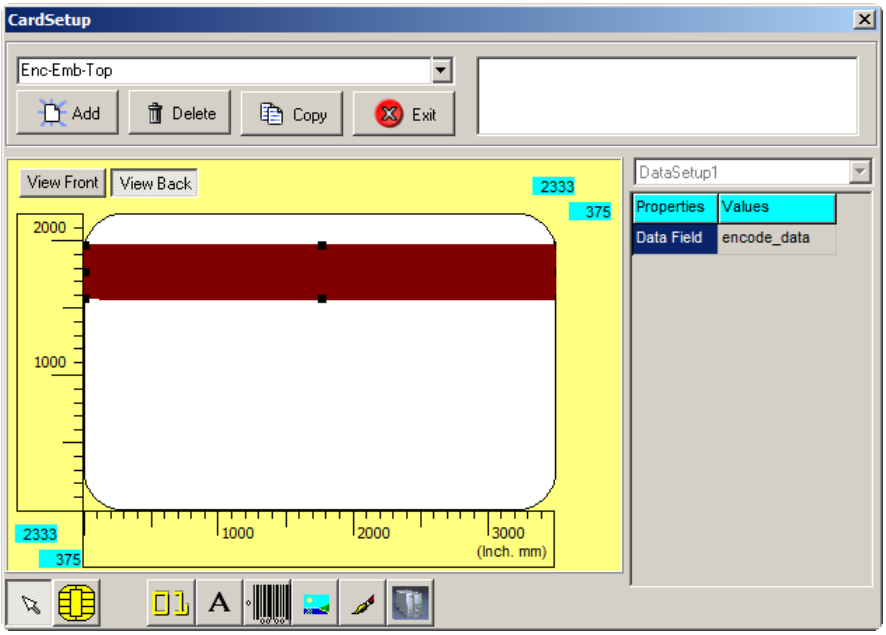
4.8.4- Card Setup for 150i Printer

4.8.4.1- View Front



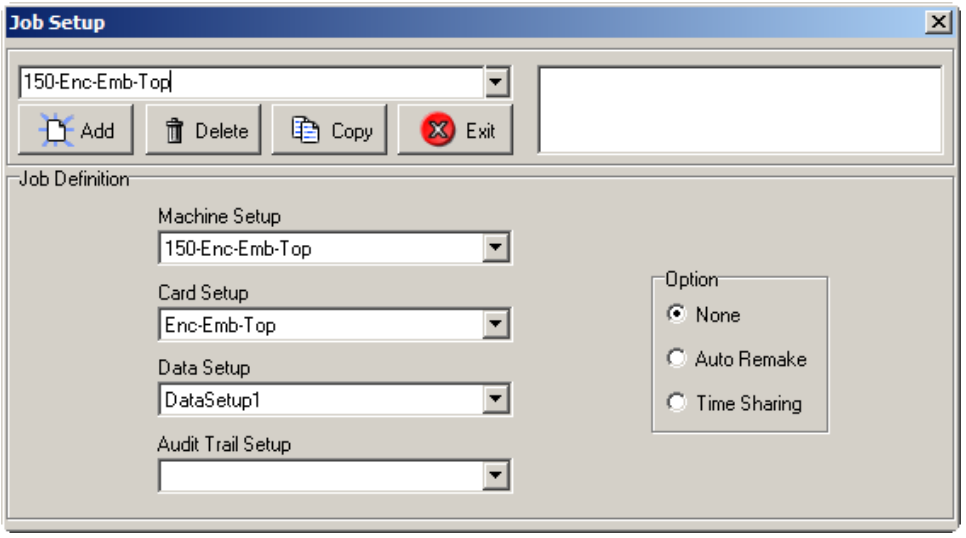
In this sample, we emboss the account_number, the cardholder_name and the expiry_date on the front of the card. Account_number, cardholder_name and expiry_date fields will be embossed by using font '10_cpi'.

4.8.4.2- View Back



In this sample, we encode the Magstripe on the back of the card.

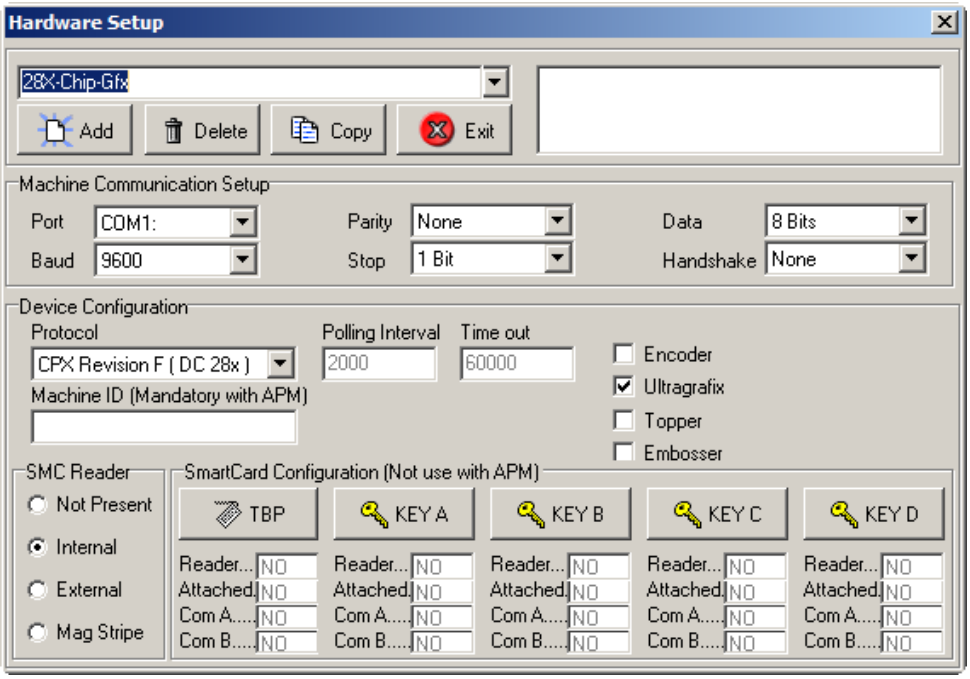
4.8.5- Job Setup for 150i Printer



Here is the Job Setup using the different 150i setups that we created.

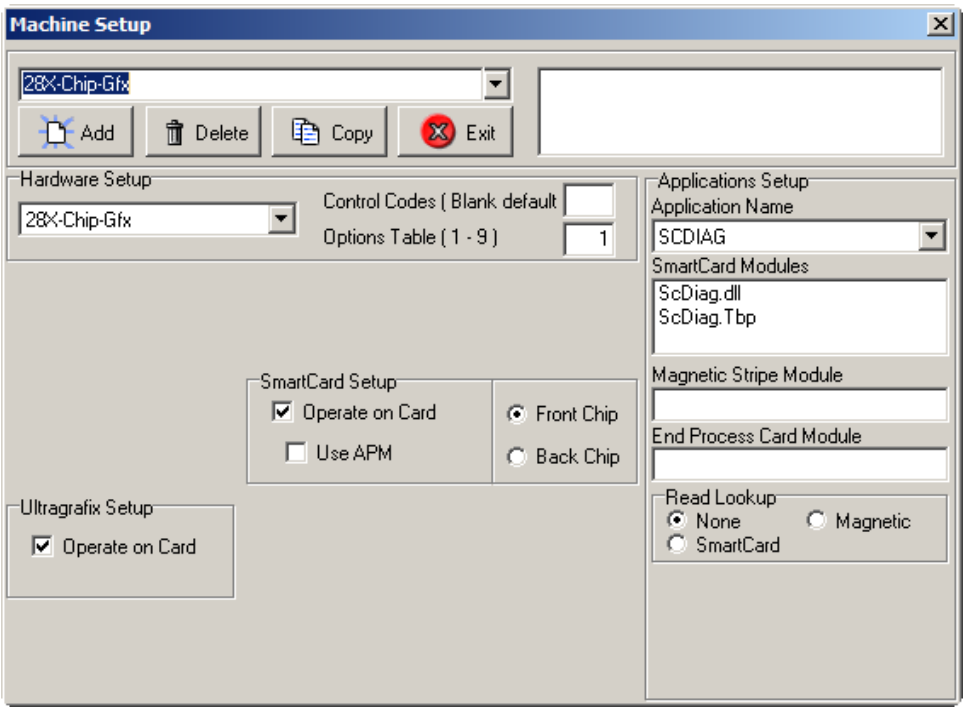
4.9- DATACARD DC280P PRINTER

4.9.1- Hardware Setup for DC208P Printer



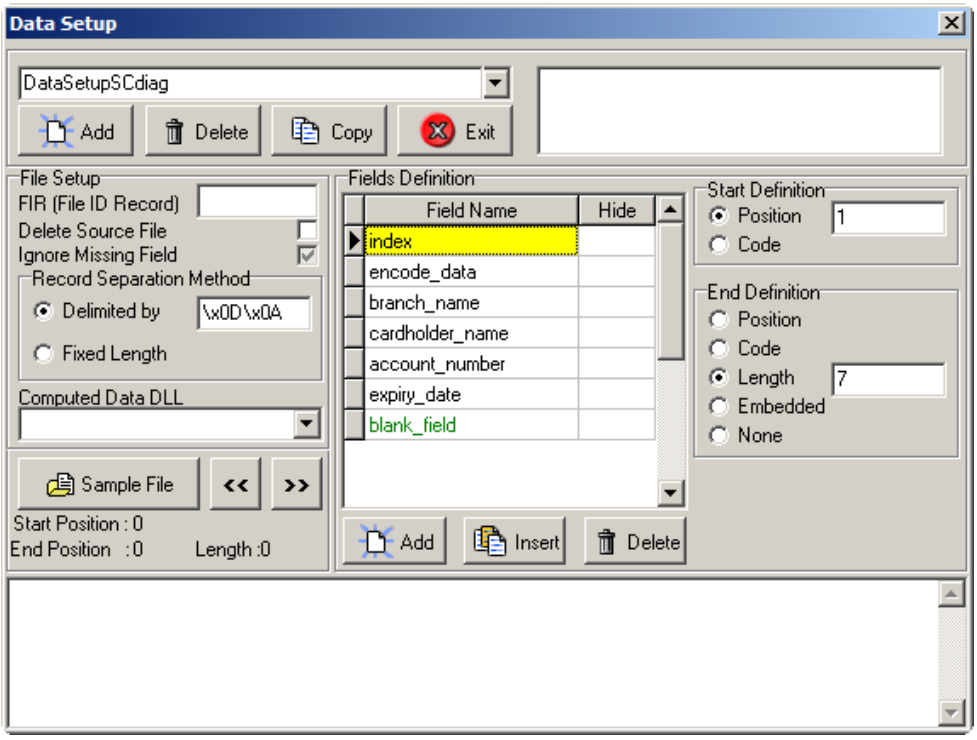
In this sample, we use a DC280P with Ultragrafix and SMC reader.

4.9.2- Machine setup for DC280P Printer



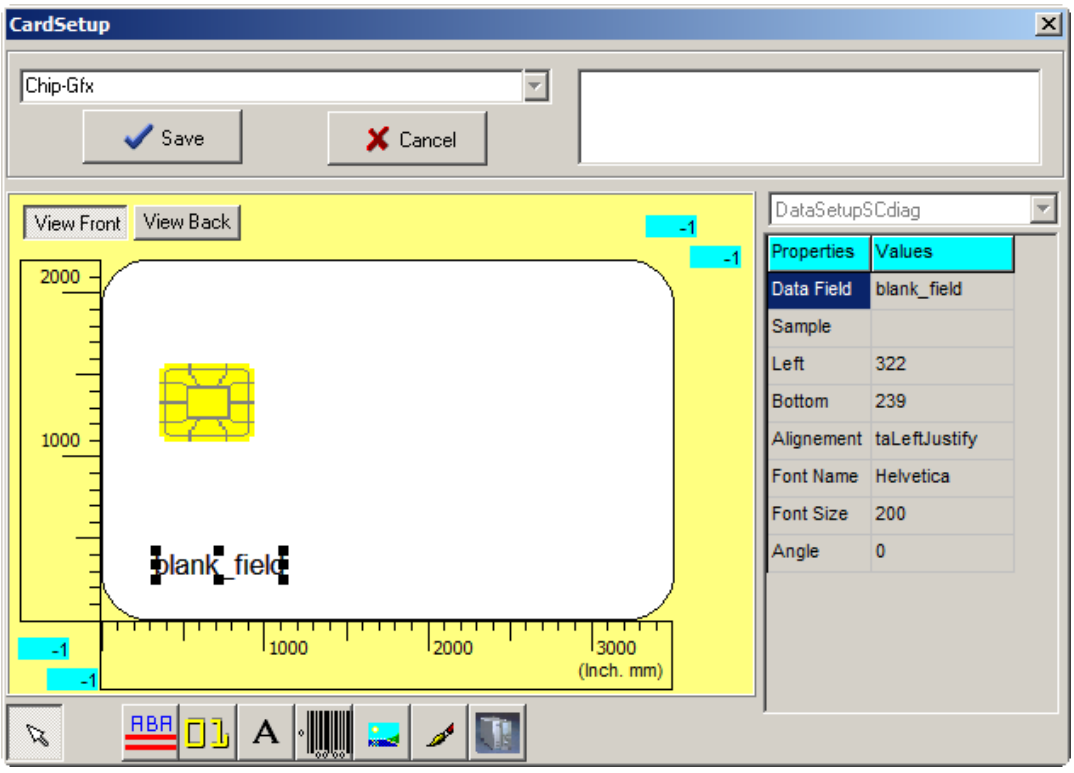
In this sample, we use Ultragrafix and SmartCard.

4.9.3- Data Setup



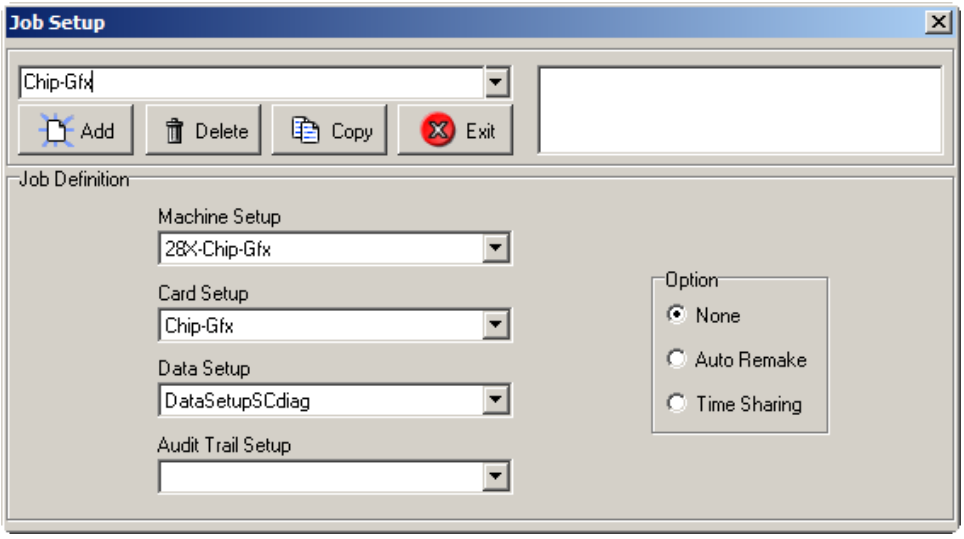
Data setup is not linked directly to a kind of printer. You can use the same Data Setup for several productions using different kind of printers.

4.9.4- Card Setup for DC280P Printer



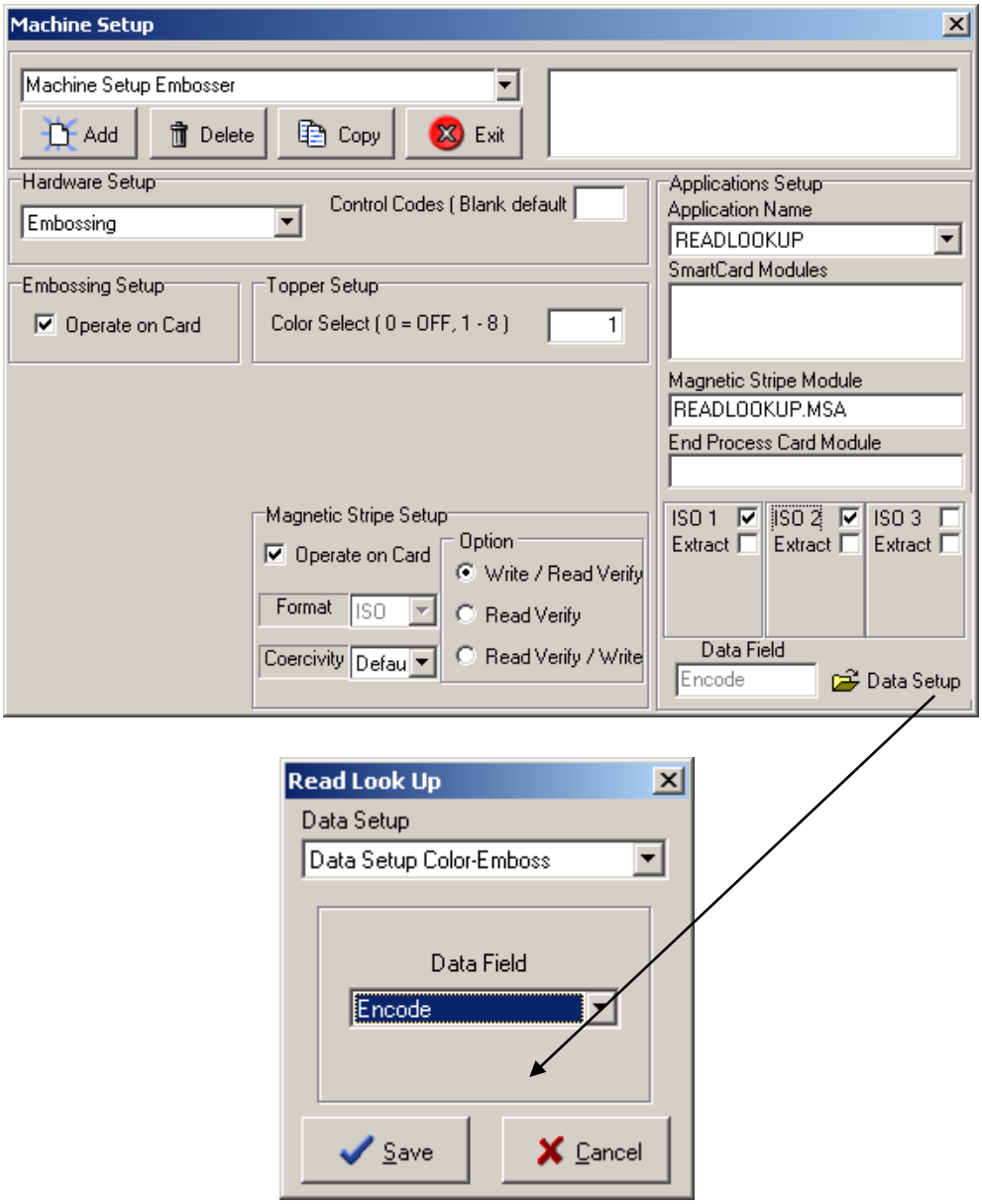
In this sample, we emboss the ‘blank_field’ field as Ultragrafix on the front of the card. We also personalize the chip of the card.

4.9.5- Job Setup for DC280P Printer



Here is the Job Setup using the different DC280P setups that we created.

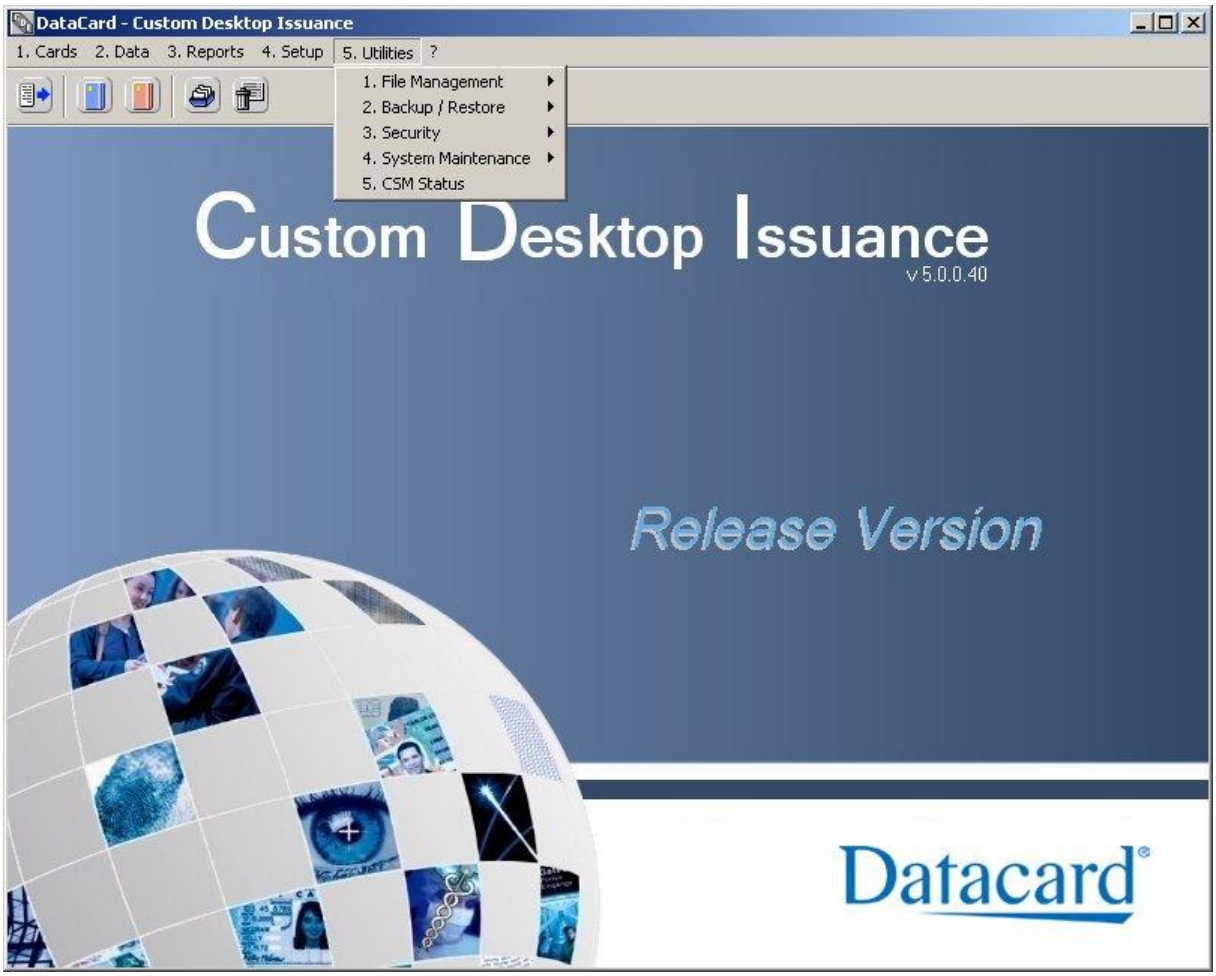
4.10- MACHINE SETUP WITH READ LOOKUP



Select READLOOKUP application, and check ISO1 and ISO2 if you have 2 tracks in your Magstripe data (ISO1 only if you have only one track). Then select your data setup and choose field corresponding to Magstripe data (Encode in this case).

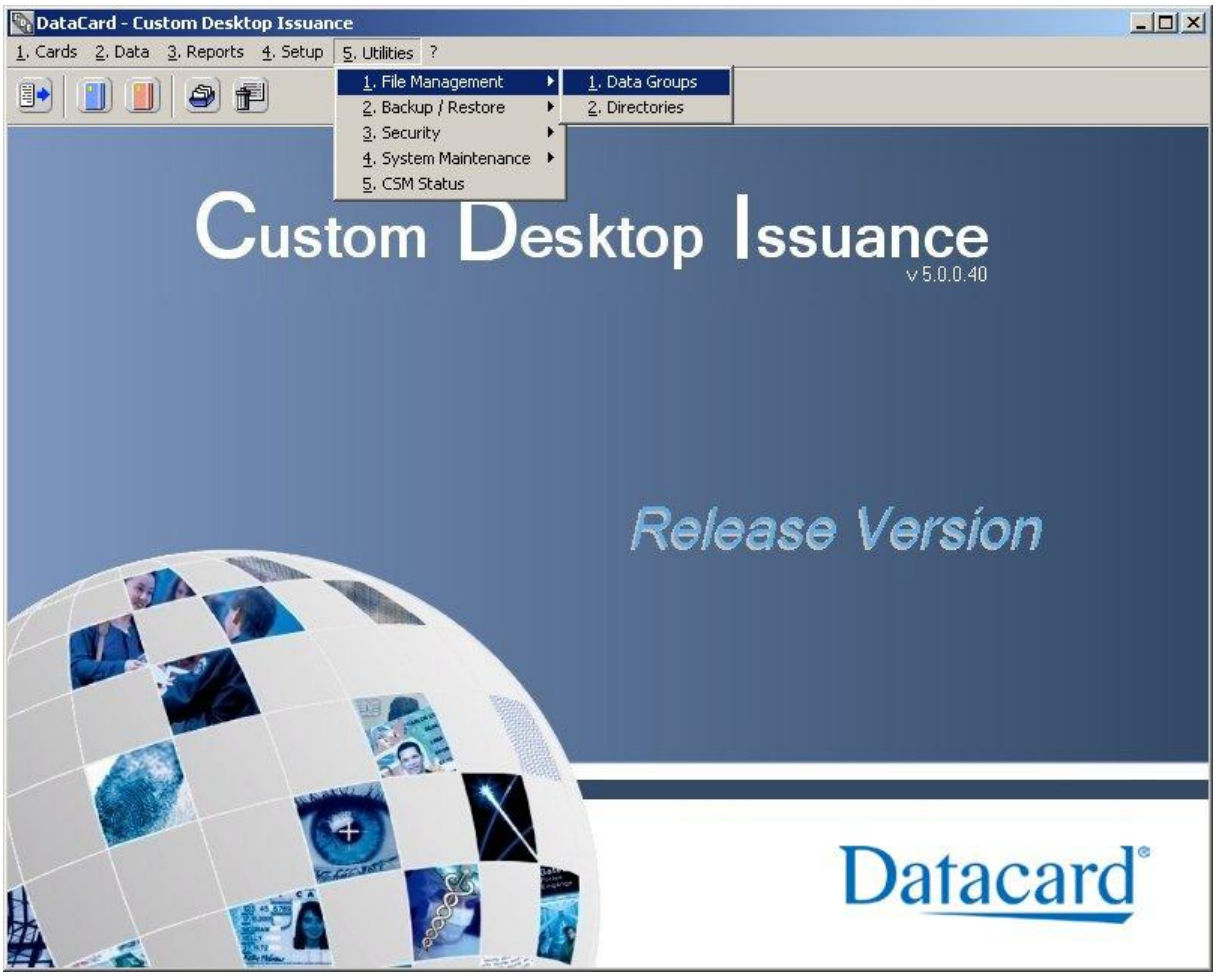
5 Utilities

Select any item on the Utilities pull-down menu bar for information.



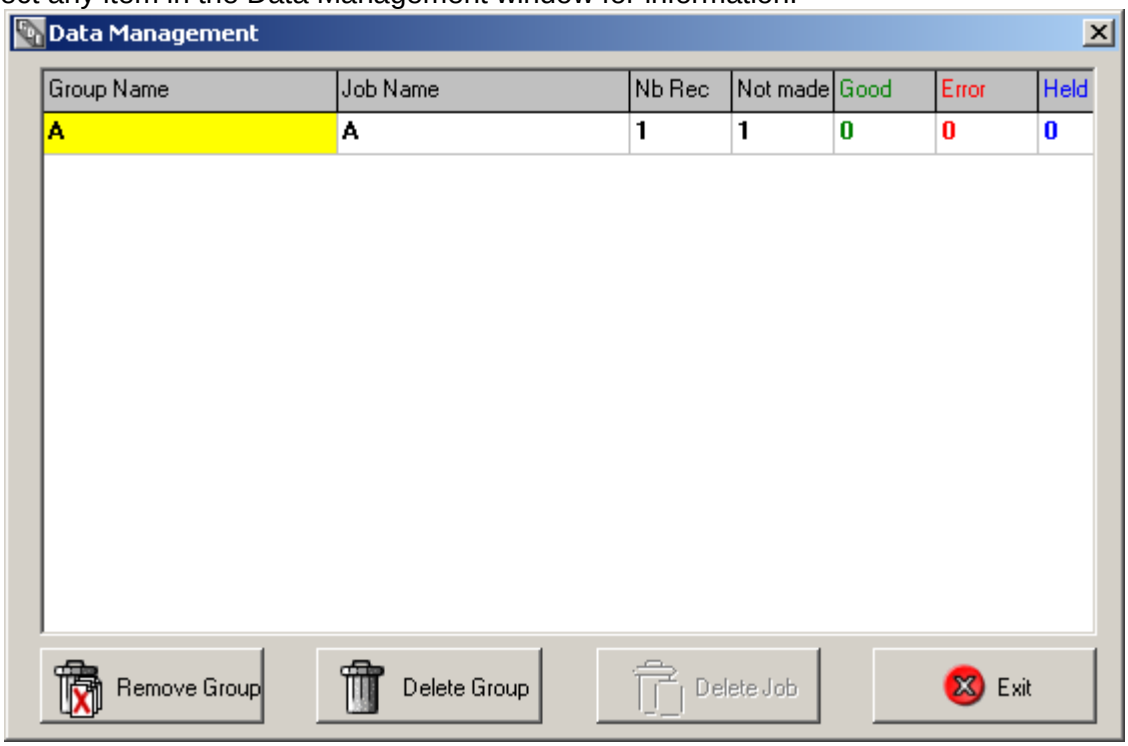
5.1- FILE MANAGEMENT

Select any item on the File Management pull-down menu bar for information.



5.1.1- Data Groups

Select any item in the Data Management window for information.

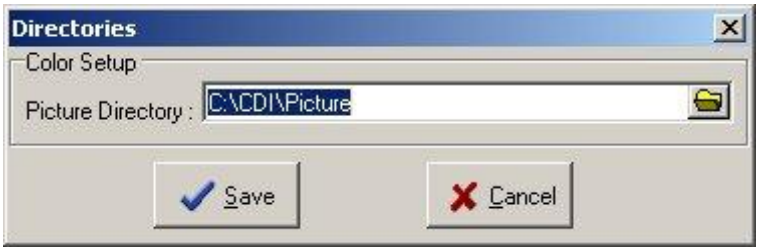


Use this window to manage all the data files in groups or jobs. The table shows the number of records and their breakdown by status.
A group is created upon each data transfer.
A job is created for each file.
A new job is created for each new FIR in a file.
The job name is either entered, or calculated automatically using the file name plus an index number.

- **"Remove Group"** erases physically and definitively all data of the group.
  It cannot be recovered.

- **"Delete Group/Job"** makes the group/job inaccessible in the menus *"2. Data > 3. Record Status"* and *"1. Cards > 2. Make Cards from list"*.
  But it can still be seen through menu *"5. Utilities > 1. File Management > 1. Data Groups"*.

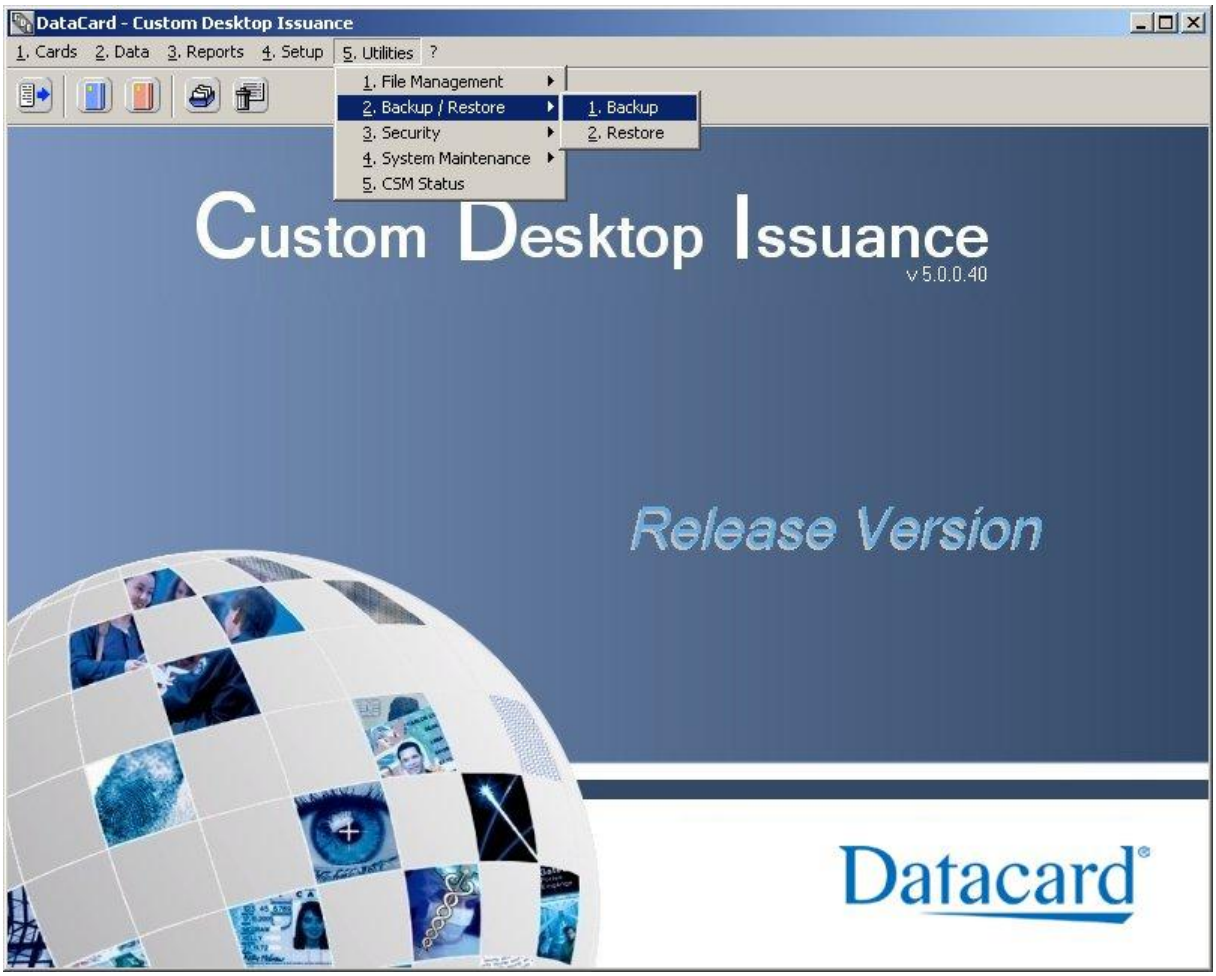
5.1.2- Directories



This screen enables you to define default path to folder that contains pictures and logos (jpg format) for graphic printing. If a picture name (e.g. logo.jpg) is defined in input file, it will look into 'Picture Directory' for this logo.jpg file.

5.2- BACKUP/RESTORE

Select any item on the Backup/Restore pull-down menu bar for information.



5.2.1- Backup

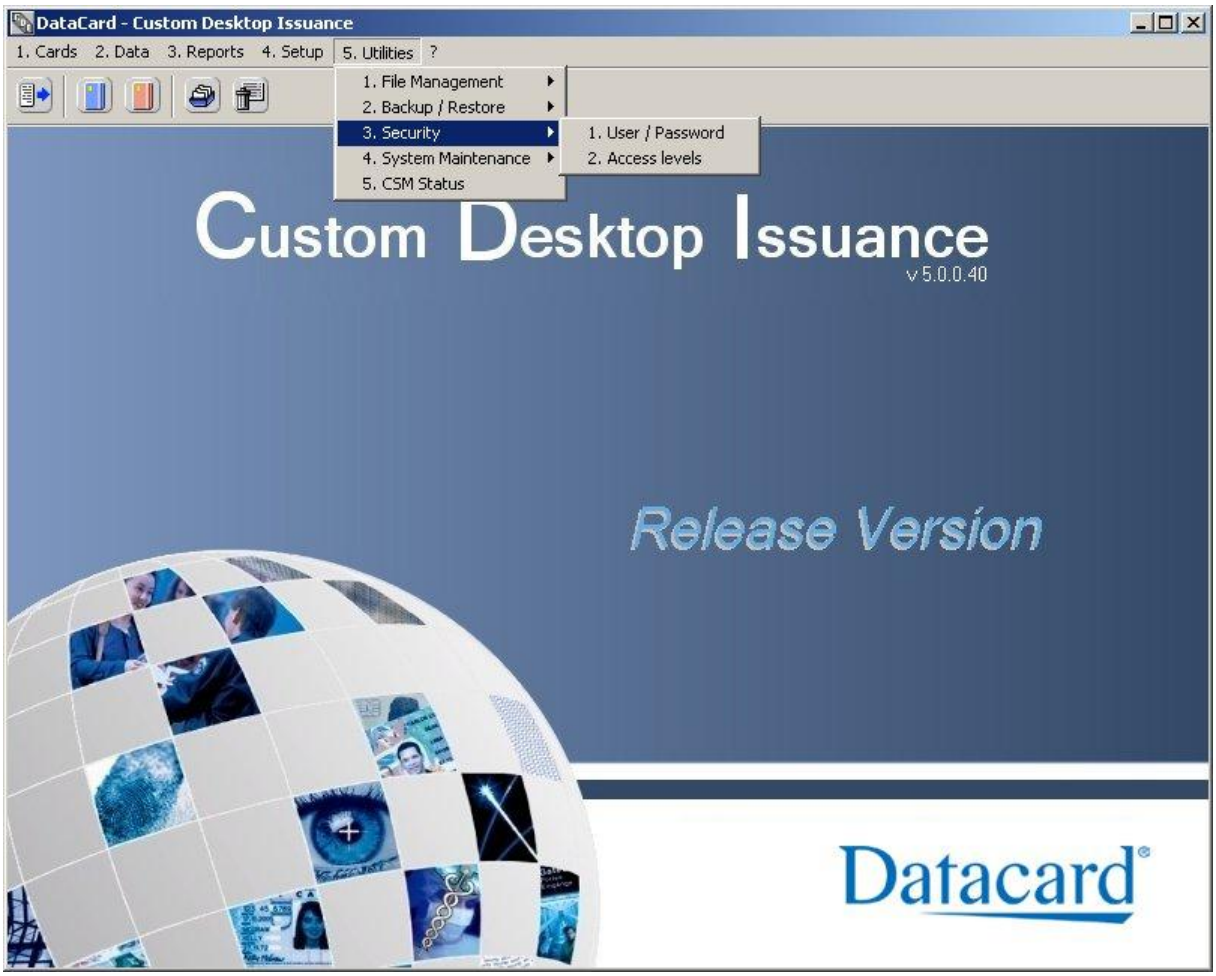
CDI creates a directory named Reserved on the selected backup drive. This subdirectory contains all the current CDI setup files.

5.2.2- Restore

For security reasons, the Restore function is not included in the CDI software. Performing an automatic Restore procedure is not recommended because the risk of losing all setups is high. Use the Windows Explorer Utility for restoring backup setup files (cf. Reserved folder).

5.3- SECURITY

Select any item on the Security pull-down menu bar for information.



5.3.1- User/Password

Select any item in the Security User Names window for information.

Use this window to manage users, assign them authorization levels for the program, and define the interface language.

- To define a new user, click **Add.**
- Enter the user's **Name**.
- Select the user's **level** from the dropdown list that appears by clicking in the corresponding Level field.
- Select the **language** by clicking in the corresponding Language field.
- Click the Password button to define the user's password.
- Enter the current password in the **Enter Current Password** field. If the user was just created, the password is **USER**.
- Enter the new password in the **Enter New Password** field.
- Click the **OK** button.
- Back in the main window, click on another record to ensure that the record you just created was saved correctly.
- Click the **Exit** button to close the window.

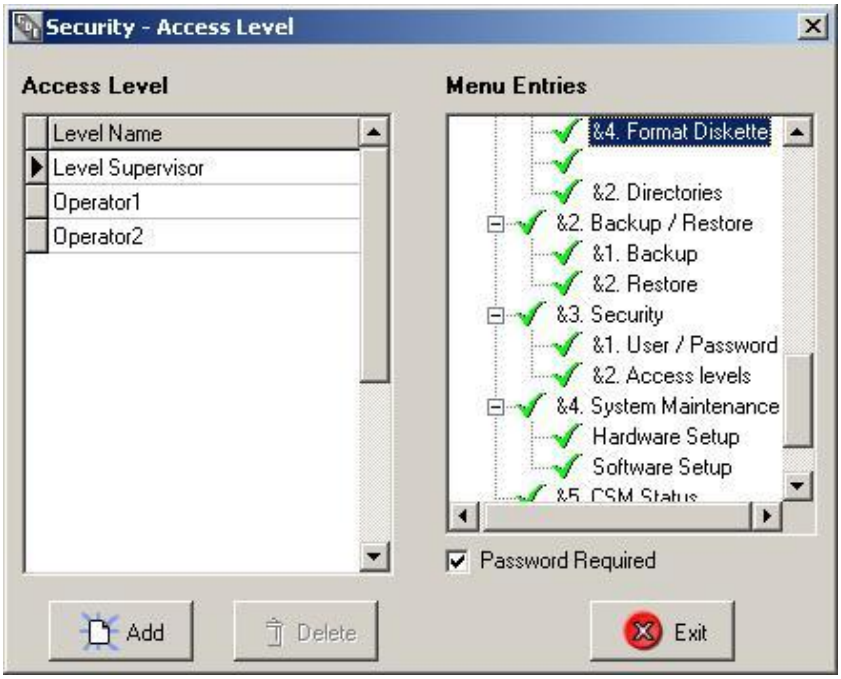
This window is displayed in English. As the language used depends on the user ID, the system switches to the user's chosen language after the user logs on in this window.

5.3.2- Access Level

Allows insertion of an access level. After naming the access level, determine which type of user will have access to certain menus.

Level Supervisor cannot be deleted. This level gives access to all menus and is reserved for the supervisor level only. It is important to remember the setting of different access levels and is essential for maintaining a high level of security for card production. It is highly recommend there should be at least two distinct users with the Level Supervisor access.

Select any item in the Security Access Level window for information.



- Select the **Level Name** to be configured or click **Add** to create a new level.

⇒ *The list allows you to define whether a given menu is accessible to the selected level (profile).*

- Click the ✓ symbol to switch it to ⊘ and vice-versa.

⇒ - ✓ *indicates that the submenu in question is accessible for the Profile.*

⇒ ⊘ *indicates that the submenu in question is not accessible for the Profile. The submenu will be grayed out in the corresponding menu bar.*

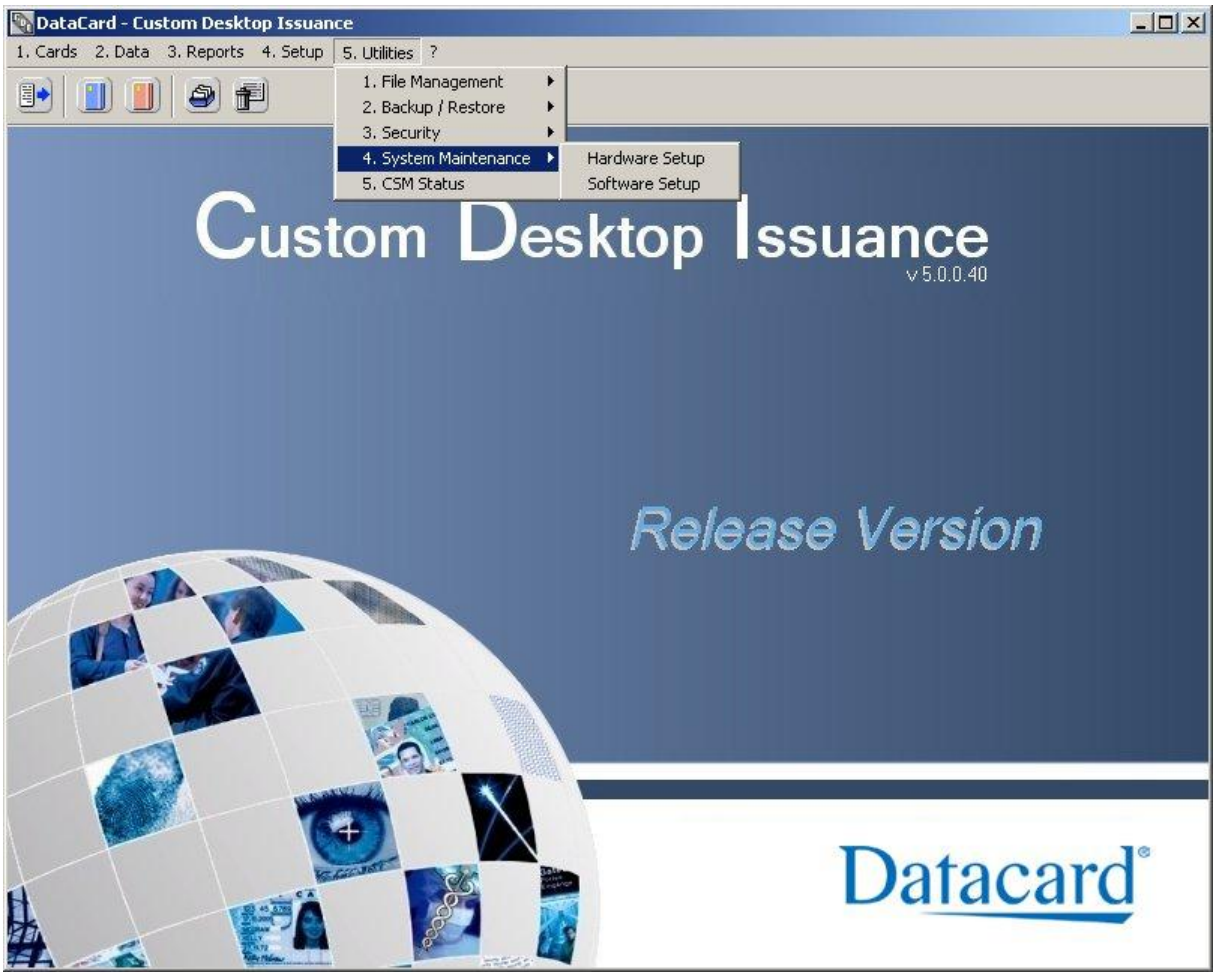
⇒ *By default, authorization to a menu gives access to all its submenus. To modify access to a submenu, click the submenu: the icon to its left changes.*

⇒ *If access to a menu is prohibited, it is grayed out in the corresponding Module.*

⇒ *If access to a menu is prohibited, the attached submenus are not accessible.*

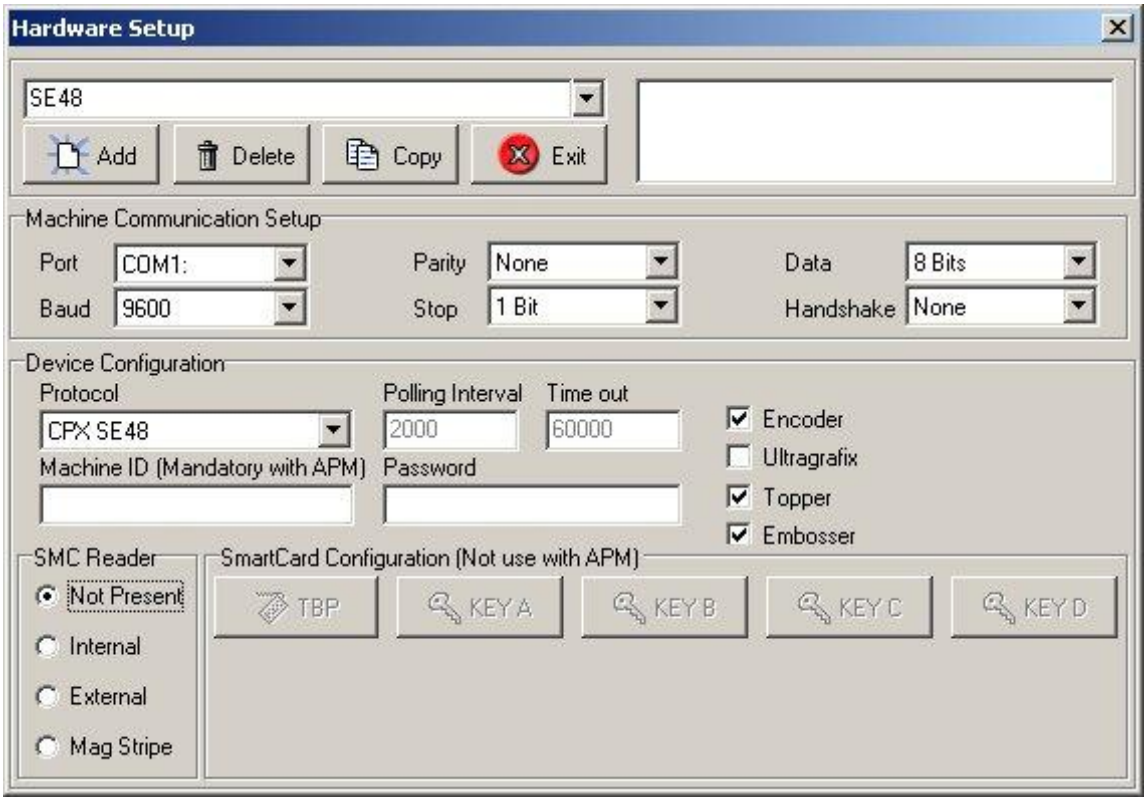
5.4- SYSTEM MAINTENANCE

Select Hardware Setup on the System Maintenance pull-down menu bar for information.



5.4.1- Hardware Setup

Select any item in the Hardware Setup window for information.



- To create a new Hardware setup, click the **Add** button.
- Optionally modify the description of the Hardware setup.
- **Configure the Machine Communication Setup (USB or RS232).**
- Configure Device (Protocol Smartdriver, Machine ID, Polling Interval, Time out, Wait time print)
- Enter a Machine ID. This is typically the user's choice. (Example: DC280 No1) The Machine ID is a field that can be used in the Audit Trail report.

NB: For SCS/APM use, please go to chapter 6 "Plug-in for using CDI with SCS/APM" (page 75)

- If using a 150i machine, enter the machine's password for magstripe encoding.
- Check Embosser if the printer is so equipped.
- Check Color if the printer is so equipped (color printing for SPxx Plus Series).
- Check Ultragrafix if the printer is so equipped (monochrome printing for DC280).
- Check the following one if the printer is equipped with a Smart Card module: Internal, External or Mag Stripe (contact-less Smart Card module) is used **(NOT USED WITH SCS/APM).**

Hardware Setup-Protocol

Click the Protocol arrow and select one of the following protocols specific to the Datacard printer:

- CPX Revision x for DC28x, 150i, SE48, DC450
- SmartDriver for SPxx Plus Series
- U800 for Ultragrafix

Hardware Setup-Polling Interval

Polling is an interval of time between each PC request to the printer. The default is Left Empty.

Hardware Setup-Time Out

Time Out is the maximum time allowed for feedback data to be sent from the printer. The default is Left Empty.

5.4.2- Software Setup

'User Application' section enables to add a shortcut to any application in 'utilities' menu (e.g. Windows notepad).

'Job Setup Selection' section enables you to define FIR Header for your input file and specific Job Setup ID to be used when loading data.

5.4.3- CSM Status

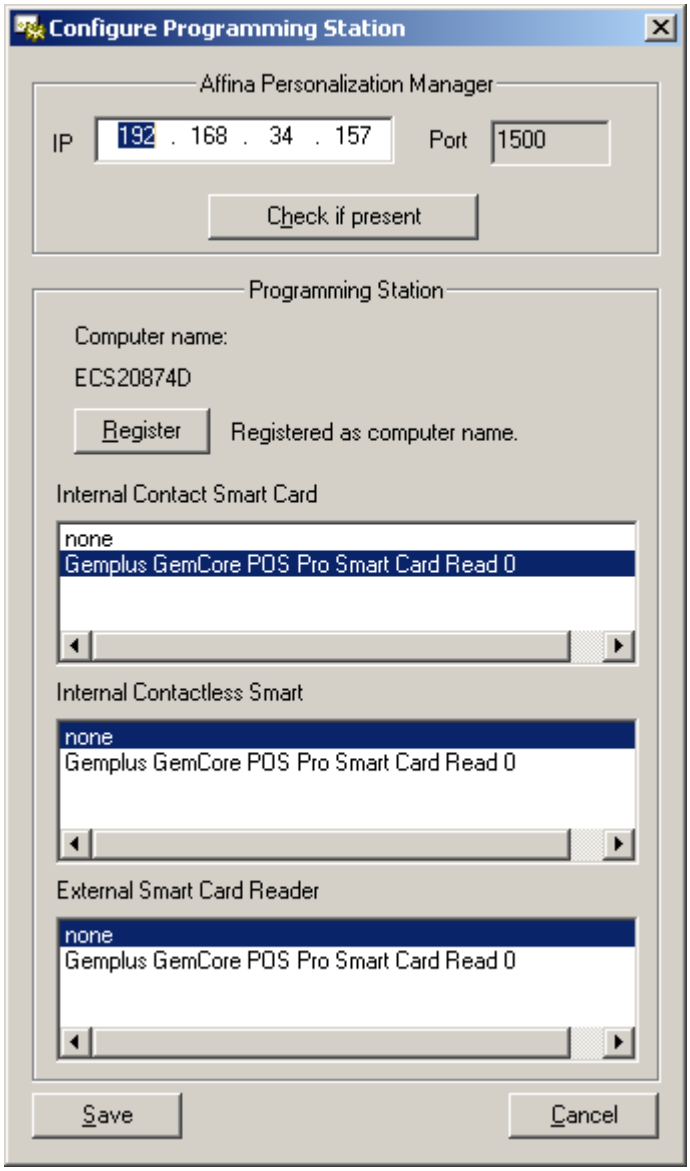
Card System Management (CSM) is a Datacard® system to manage and allocate jobs between several printers. The CSM/CDI interface is available in this software version, as well as interface with Datacard® DPP CPM module.

6 Plug-in for using CDI with SCS/APM

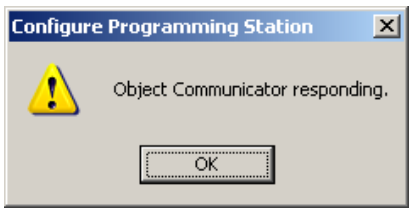
If you are using DC315GX, you can skip this section and go to 6.1- “Special for DC315GX” (page 76).

In order to use CDI with SCS/APM, the SmartCard reader that will be used for chip personalization needs to be defined:

- Run Configure Programming Station from Programs -> Datacard -> Affina Personalization Manager -> Desktop Utility

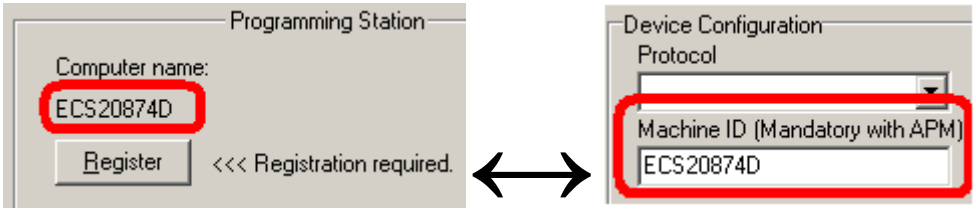


- In the ‘Configure Programming Station’ tool, enter the IP address of the SCS/APM server. Then click on the ‘Check if present’ button in order to check that’s ok. If it’s ok, you will have the following message:



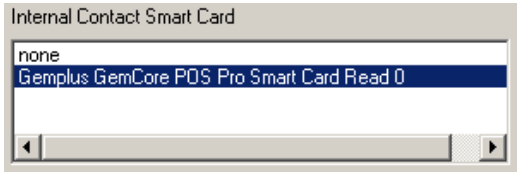
- Then register your Computer in SCS/APM by clicking on the 'Register' button.

- Machine ID in 'Hardware Setup' of CDI must be the same than Computer Name defined in the 'Configure Programming Station' tool.



'Configure Programming Station' tool *CDI 'Hardware Setup'*

- Select the reader in *Internal Contact Smart Card* or in *Internal Contactless Smart Card* (depending of your device and what you want to do).



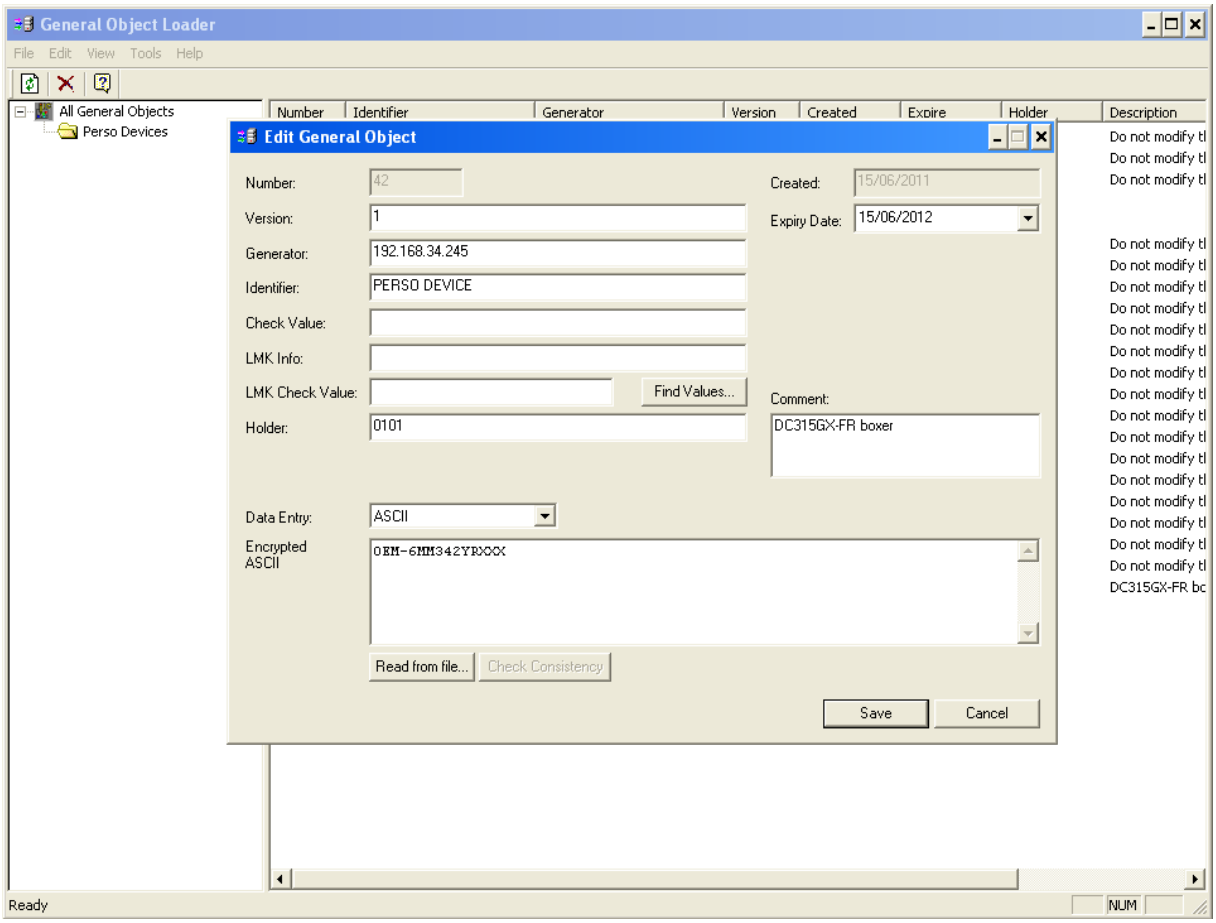
- Click on the save button (you can check within Perso Devices folder from General Object Loader if equipment name has been correctly saved).

- Configure Machine Setup for SCS/APM (page 18)

6.1- SPECIAL FOR DC315GX

In order to use CDI with SCS/APM, the printer needs to be registered to SCS Server:

- Note down the IP address of the computer (or boxer) driving the printer
- On SCS Server, run General Object Loader from Programs -> Datacard -> Syntera Customization Suite
- Add a new object with the IP in Generator field:



- Configure Machine Setup for SCS/APM (page 18)

7 Winlec to CDI migration

You can easily migrate your Winlec setups and application to CDI, and use them the same way on CDI.

To do so, install CDI (please refer to chapter 2 of this document), then copy your Winlec Rserved folder (usually installed under C:\Winlec) in your CDI installation folder (it will replace the current one). Then copy your applications from C:\Winlec\Dll folder to C:\CDI\Dll.

Please note you will have to reload Winlec jobs on CDI so that you can use them.